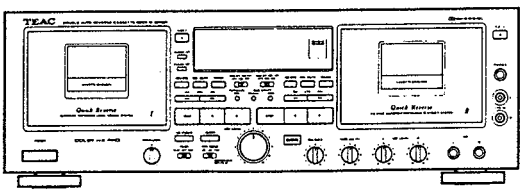
TEAC®



SERVICE MANUAL

W-6000R

Stereo Double Reverse Cassette Deck

NOTES

- PC boards shown are viewed from parts side.
- Parts marked with ＊ require longer delivery time.
- The parts with no reference number or no parts number in the exploded views are not supplied.
- As regards the resistors and capacitors, refer to the circuit diagrams contained in this manual.
- ⚠ Parts marked with this sign are safety critical components. They must be replaced with identical components - refer to the appropriate parts list and ensure exact replacement.
- Parts of [ ] mark can be used only with the version designated.
  [J]:JAPAN [US]:U.S.A. [C]:CANADA [GE]:GENERAL EXPORT
  [E]:EUROPE [UK]:U.K. [A]:AUSTRALIA

注　意

- プリント基板図は部品面が示されています。
- ＊印の部品は納期が若干かかります。あらかじめご了承ください。
- 分解図に部番のない部品及び品番のない部品は供給しません。
- 標準の抵抗、コンデンサーは省略してあります。回路図を参照してください。
- ⚠印は安全重要部品です。交換する時は必ずティアック指定の部品を使用してください。
- 仕向先
  [J]:JAPAN [US]:U.S.A. [C]:CANADA [GE]:GENERAL EXPORT
  [E]:EUROPE [UK]:U.K. [A]:AUSTRALIA

Effective : May, 1992

5704058810

1. SPECIFICATIONS
仕　様

Track System : 4-Track, 2-Channel Stereo
Heads : 4 ; 1 Erase and 1 Record/Playback (Rotary, DECK I/II)
Type of Tape : Cassette tape C-60 and C-90 (Philips type)
Tape Speed : 4.76 cm/sec (1-7/8 ips), 9.5 cm/sec (3-3/4 ips) (High speed dubbing only)
Motors : 4 ; 2 DC servo motors, 2 DC motors (2 each deck)
Wow and Flutter (WRMS) : 0.06 %
Frequency response (Overall, - 20dB) :
25-19,000 Hz, Metal tape
25-18,000 Hz, CrO_2 tape
25-17,000 Hz, Normal tape
Signal - to - Noise Ratio (Overall) :
59 dB (NR off, 3% THD level, Weighted)
69 dB (Dolby B NR on, over 5 kHz)
79 dB (Dolby C NR on, over 1 kHz)
Fast Winding Time :
Approximately 110 seconds for C-60
Inputs : Line ; 87 mV, 50 k ohms
MIC ; 0.35 mV, 200 ohms
Outputs : Line ; 0.46 V for load impedance of 50 k ohms or more
Headphones ; 8 ohms
Power Requirements :
120/230 V AC, 50-60 Hz, 27W (General Export model)
120 V AC, 60 Hz, 25W (U.S.A./Canada model)
230 V AC, 50 Hz, 27W (Europe model)
240 V AC, 50 Hz, 25W (U.K./Australia model)
Dimensions (W × H × D) :
435 × 147 × 325 mm
(17-1/8" × 5-13/16" × 12-13/16")
Weight (net) : 6.7 kg (14-6/8 lbs.)
Standard Accessories :
Wireless Remote Control Unit (RC-425), Batteries (SUM-4, "AAA", "R03", type) × 2, Input-output connection cords, Owner's manual

トラック形式　4トラック2チャンネル ステレオホニック方式
ヘッド構成　4：録音／再生ヘッド×1，消去ヘッド×1 (ロータリー式，TAPE I／TAPE II)
使用テープ　C-60，C-90タイプ カセットテープ
テープ速度　4.8センチ，9.5センチ（倍速ダビング時）
モーター　4：TAPE I／TAPE II
キャプスタン：DCサーボモーター×1
リール：DCモーター×1
ワウ・フラッター　0.06％(W. RMS)
±0.1％(W. Peak EIAJ)
周波数特性(総合)　25～20,000Hz
(30～19,000Hz ± 3dB, EIAJ)：メタル
25～19,000Hz
(30～18,000Hz ± 3dB, EIAJ)：クローム
25～18,000Hz
(30～17,000Hz ± 3dB, EIAJ)：ノーマル
SN比(総合)　59dB(NR OUT, 3％THDレベル, WTD)
69dB(ドルビーB NR IN 5kHz以上)
79dB(ドルビーC NR IN 1kHz以上)
早巻時間　約110秒(C-60テープ)
入力　ライン：87mV
(入力インピーダンス50kΩ)
マイク：0.35mV
(入力インピーダンス200Ω)
出力　ライン：0.46V
(負荷インピーダンス50kΩ以上)
ヘッドホン：1mW／8Ω
電源　100V AC, 50-60Hz
消費電力　25W
外形寸法　435(幅)×147(高さ)×326mm(奥行) mm (突起部含む)
重量　6.7kg
付属品　入出力コード×2本(1組)，リモートコントロールユニットRC-425，乾電池(単4)×2，取扱説明書

●Specifications were determined using metal tape except as noted.
●Improvements may result in specification or feature changing without notice.

●この仕様は特に表示した項目を除き、当社基準テープを使用して測定したものです。
●仕様および外観は、改善のため予告なく変更することがあります。

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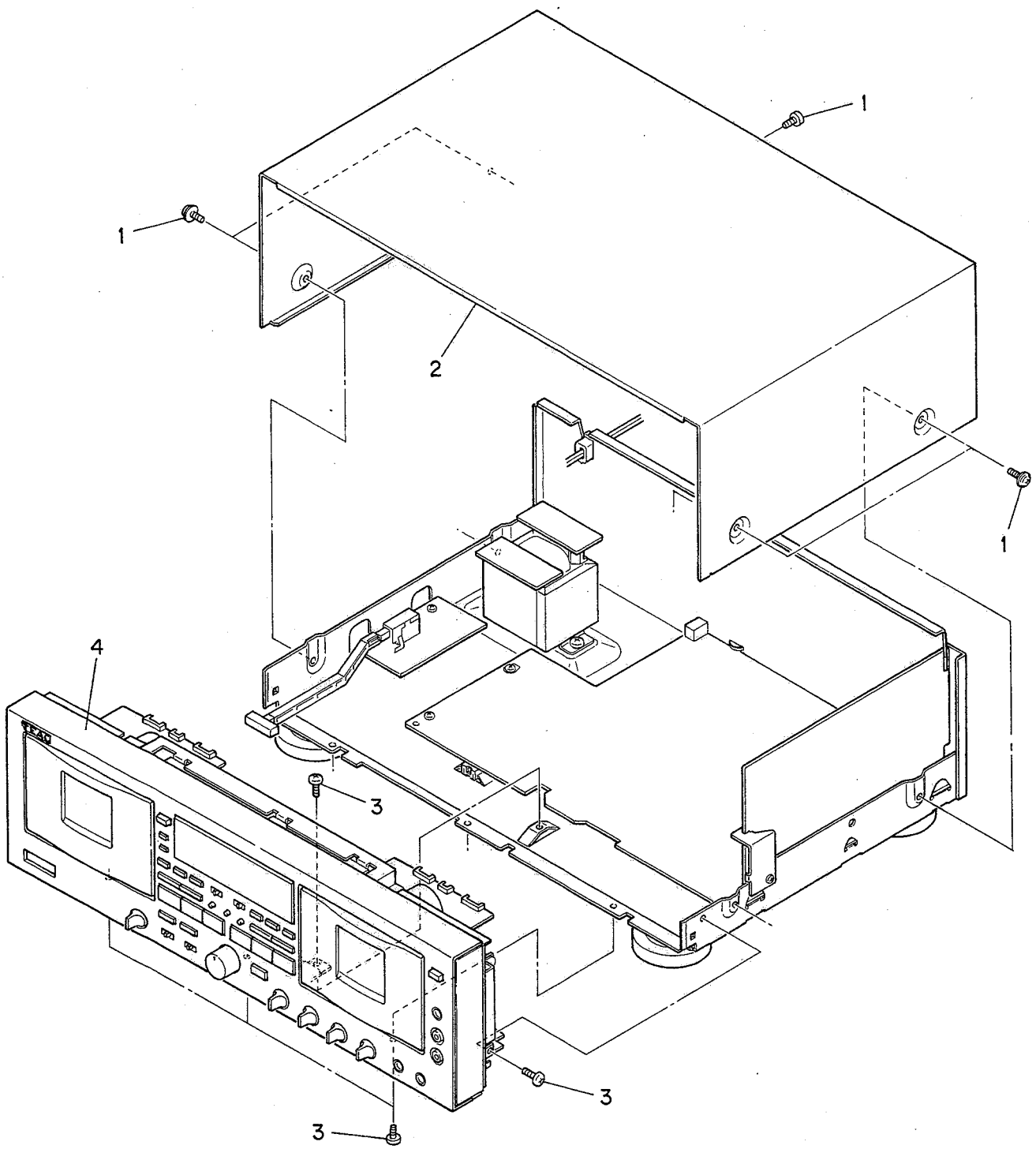
ドルビー, DOLBY, ダブルD記号⊡及びHXプロはドルビーラボラトリーズライセンシングコーポレーションの登録商標です.

2. CASE AND FRONT PANEL REMOVAL

外装部品の外し方

Disassemble in number-order

番号順に外してください



3. ADJUSTMENT AND CHECKS
調整と確認

3-1 MECHANICAL ADJUSTMENT AND CHECKS

3-1-1 Wow and flutter (playback method)

Note : In both FWD and REV play modes, these measurements should be made at the beginning, middle, and the end of the tape.

1. Connect a wow-and-flutter meter to the deck as shown in Fig. 3-1.
2. Load and play a TEAC MTT-111 test tape.
3. Check that the readings on the wow-and-flutter meter is within 0.15% (JIS WRMS).

3-1 機構部の調整と確認

3-1-1 ワウ・フラッタ (再生法)

注 : テープの巻始め、中間、巻終りで測定する。

1. Fig. 3-1のようにワウ・フラッタメーターを接続する。
2. テストテープMTT-111を再生する。
3. ワウ・フラッタ値が0.15% (JIS WRMS) 以内であることを確認する。

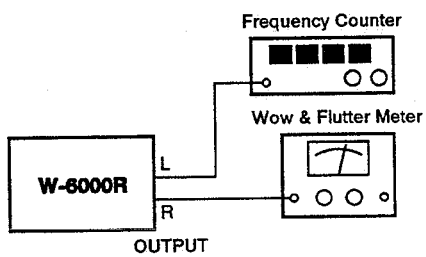


Fig. 3-1

3-1-2 Tape speed

1. Connect a frequency counter to the deck as shown in Fig. 3-1.
2. Press POWER switch to ON to rotate the motor, then continue the motor rotation for approx. 1 minute for warm-up.
3. Load a TEAC MTT-111 test tape with a 3,000Hz test tone and play in FWD direction the end of the test tape.
4. Adjust each variable resistor to get the following figures.

3-1-2 テープスピード

1. Fig. 3-1のように周波数カウンターを接続する。
2. 電源を入れ、約1分間ウォーミングアップする。
3. テストテープMTT-111(3,000Hz)の巻終り部をFWD方向で再生する。
4. 周波数値が下表の範囲内になるよう、各調整VRを調整する。

	Adjustment point		Adjustment value (Hz)
DECK I	HIGH speed	R53	6,020~6,040 (6030±10)
	LOW speed	R54	3,010~3,020 (3015±5)
DECK II	HIGH speed	R51	6,000~6,020 (6010±10)
	LOW speed	R52	3,000~3,010 (3005±5)

Notes :
1. Hish speed adjustment should be done first for both decks.
2. High speed of both decks is obtained by shorting test pin 12.
3. See Fig. 3-3 for adjustment component location.

注意
1. 両デッキ共、High Speedを先に調整すること。
2. Test Pin 12をショートすると、両デッキ共、High Speedになります。
3. 調整個所 : Fig. 3-3参照

3-1-3 Tape Speed Drift

1. After doing 3-1-2, in play mode, check that the following figures are obtained at the beginning and at the end of the tape.

	Speed drifting
HIGH speed	Within 90 Hz
LOW speed	Within 45 Hz

3-1-4 Reel torque

1. Load the cassette torque meter on the deck and read the pointer indication on the dial scale for each tape transport operation. The measured torque should be within the following specified values.
   Take-up : 35 to 75g • cm
   Supply : 2.0 to 6.0g • cm
   F.F/REW : 70 to 160g • cm

3-1-5 Lubrication

Lubrication is only required when parts are replaced. For this purpose, use the oil specified below.
Oil : TEAC spindle oil (from TEAC TZ-255 oil kit), Mobil D. T. E. oil light, or equivalent

1. Apply a drop of oil with an oil applicator to a point about ⅓ the way down the shaft (from the free end) of flywheel, then insert the shaft into the capstan housing.

3-1-6 Voltage Conversion (General export models only)

Be sure to remove the power cord from the AC outlet before repositioning the voltage converter switch.
1. Locate the voltage selector on the rear panel.
2. Using a flat-bladed screw driver, set to the appropriate 230 V or 120 V position according to your area.

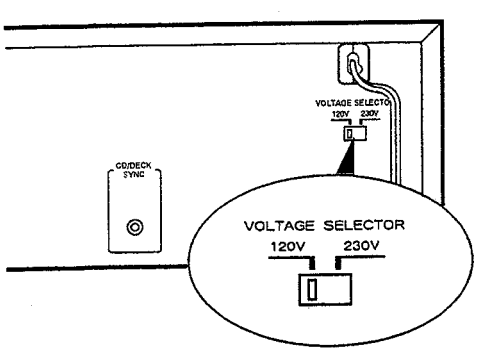


Fig. 3-2

3-1-3 テープ速度変動

1. テストテープMTT-111を再生し、巻始めと巻終りの速度差を測定する。

	テープ速度変動
HIGH speed	90Hz以内
LOW speed	45Hz以内

3-1-4 リールトルク

1. カセット型トルクメーターによる測定値が下記の範囲内であることを確認する。
   テイクアップトルク： 35～75g・cm
   バックテンショントルク： 2.0～6.0g・cm
   早送り／巻戻しトルク： 70～160g・cm

3-1-5 注油

注油は部品を交換する時のみ必要です。
下記指定のオイルを使用してください。
オイル：TEACスピンドルオイル(TEAC TZ-255オイルキットより)、モービルD. T. Eオイルライト又は相当品

1. フライホイール軸の先端から約⅓下がった軸面に注油器にてオイル1滴を注油後、フライホイール軸をキャプスタンハウジングへ挿入する。

3-2 ELECTRICAL ADJUSTMENT AND CHECKS

3-2-1 Precautions

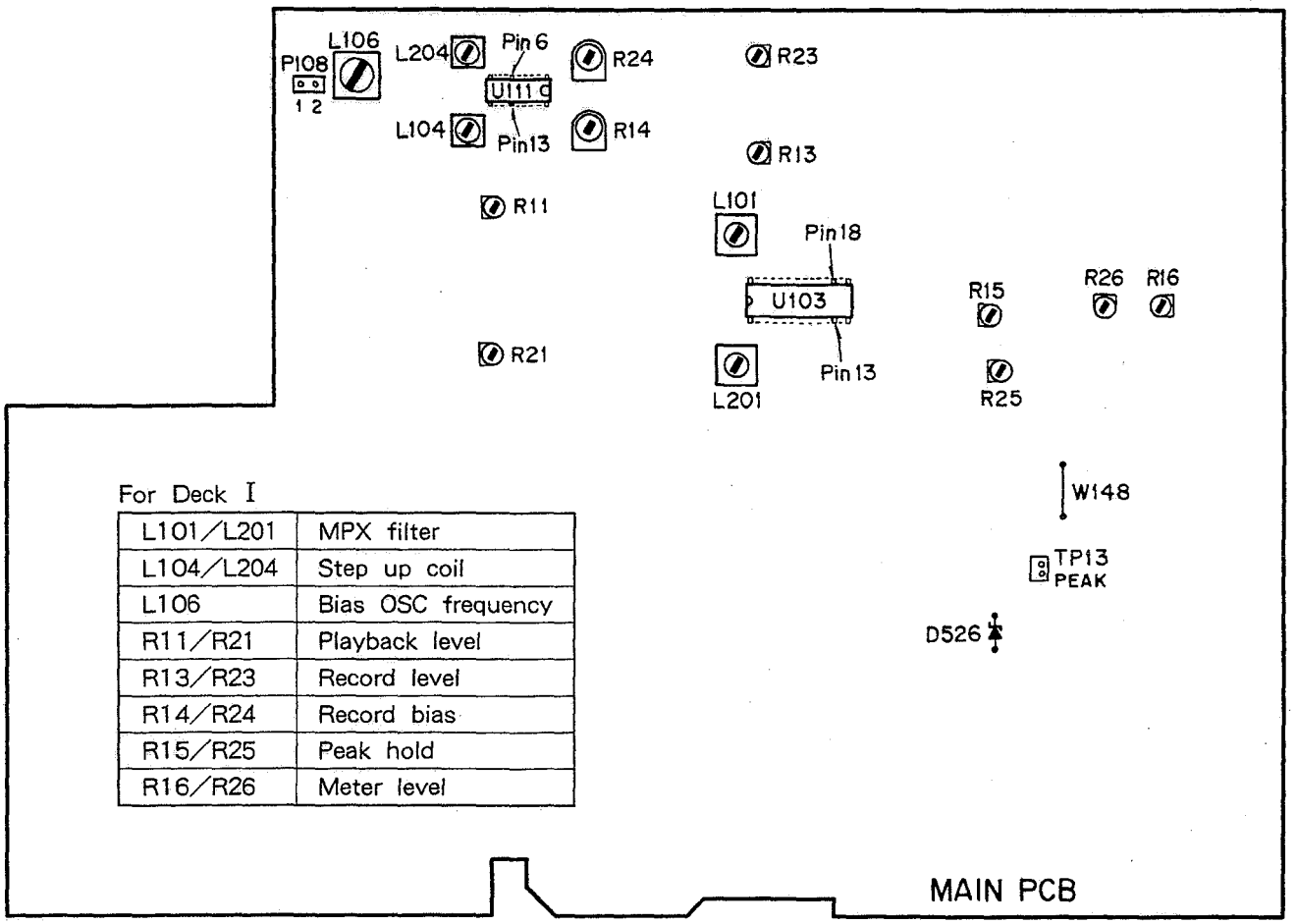
1) Before performing adjustments and checks clean and demagnetize the entire tape path.
2) In general, adjustments and checks are made in the order of Lch then Rch. Double REF. Nos. indicate Lch /Rch. (Example ; R11/R21)
3) 0dB is referenced to 0.775V. If an AC voltmeter that references 0dB to 1V is used, appropriate compensation should be made.
4) The AC voltmeter used in the procedures must have an input impedance of 1MΩ or more.
5) Note the "Deck settings" at the top of each chart. The settings apply to all check for a specific chart unless explicitly stated otherwise.
6) Unless specified otherwise, adjustments and checks are made in FWD direction.
7) Input terminals and measuring points at each step are the same as previous step, otherwise specified.

3-2 アンプ部の調整と確認

3-2-1 注意

1) アンプ部の調整・確認の前に、テープ走行系の消磁と清掃を行なってください。
2) 特に指定のない限り、調整・確認はLch, Rchの順序で行なってください。尚、R11/R21のように記されている回路番号はLch/Rchを示します。
3) 0dB=0.775V
4) 測定に使用するレベル計の入力インピーダンスは1MΩ以上のものを使用してください。
5) 各チャート上部の"デッキセッティング"は、特に指定のない限りチャート内共通です。
6) 特に指定する以外は、FWD方向で調整・確認を行ってください。
7) 特に指定のない場合、入力端子及び測定個所は直前のステップと同じです。

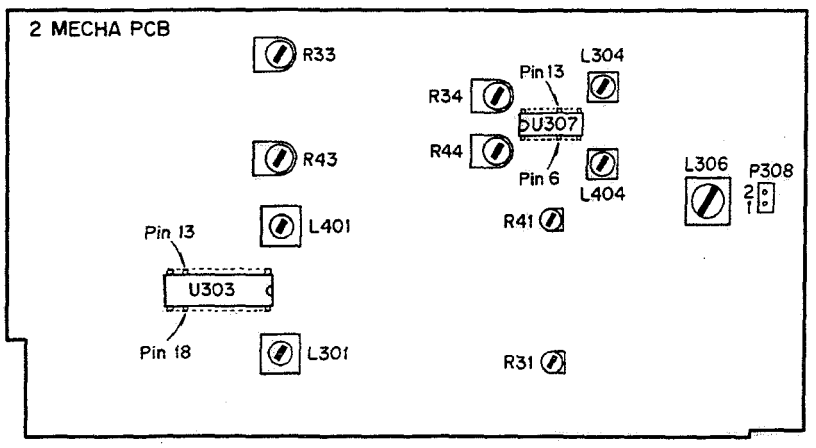
3-2-2 Adjustment and check locations 調整・チェック個所



For Deck I

L101/L201	MPX filter
L104/L204	Step up coil
L106	Bias OSC frequency
R11/R21	Playback level
R13/R23	Record level
R14/R24	Record bias
R15/R25	Peak hold
R16/R26	Meter level

Fig. 3-3 MAIN PCB



For Deck II

L301/L401	MPX filter
L304/L404	Step up coil
L306	Bias OSC frequency
R31/R41	Playback level
R33/R43	Record level
R34/R44	Record bias

Fig. 3-4 2 MECHA PCB

3-2-3 PLAYBACK PERFORMANCE 再生系

Deck settings :
DOLBY NR Switch : OFF

TEAC test tapes :
MTT-150 : For Dolby level calibration
MTT-25702 : For playback frequency response check for NORMAL

ITEM	SETTING	INPUT SIGNAL	ADJUST (or CHECK)	MEASURING POINT, RESULT	REMARKS
1. REC/PLAY head azimuth 録再ヘッド アジマス	Connection : Fig. 3-6 Check/adjust in FWD, REV respectively FWD, REVそれぞれ実施	MTT-150	Check	OUTPUT : Phase : within 45°	Fig. 3-8
		MTT-25702 (12.5kHz)	Azimuth screw of R/P head 録再ヘッドのアジマス調整ねじ (Fig. 3-7)	Max. output at L & Rch L & Rch最大出力	
2. Specified output level 規定出力レベル	Connection : Fig. 3-9 FWD PLAY	MTT-150	R11/R21	DOLBY T.P. U103 Pin18/Pin13 : 388mV (−6dB)	DECK I
			R31/R41	DOLBY T.P. U303 Pin18/Pin13 : 388mV (−6dB)	DECK II
	FWD/REV PLAY	MTT-150	Check	OUTPUT : −5dB ± 1dB (388mV~489mV)	
3. Meter level メーターレベル		MTT-150	R16/R26	PEAK LEVEL METER: ◫ ± 1	
4. PHONES output level PHONES出力	Connection : Fig. 3-10	MTT-150	Check	PHONES : −19dB ± 3dB (61.5mV~123mV)	8Ω load 8Ω負荷
5. Playback frequency response 再生周波数特性	Connection : Fig. 3-5	MTT-25702	Check	OUTPUT : Fig. 3-11	
6. Playback S/N ratio 再生S/N比	Connection : Fig. 3-5	Leader tape with 120μ (NORMAL) type case ノーマルテープのリーダー部を再生	Check	46dB min.	Ratio of −5dB reference level to noise 規定出力レベルとの比

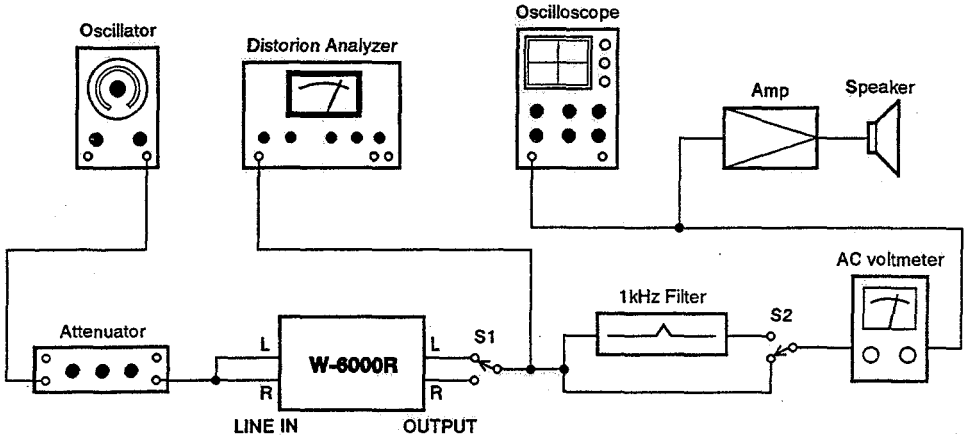


Fig. 3-5 Basic test setup

3-2-4 MONITOR PERFORMANCE モニター系

Deck settings :
DOLBY NR Switch : OFF

ITEM	SETTING	INPUT SIGNAL	ADJUST (or CHECK)	MEASURING POINT, RESULT	REMARKS
7. Min. LINE input level 最小ライン入力レベル	Connection : Fig. 3-5 REC LEVEL Control:MAX MIC LEVEL Controls:MIN	LINE IN : 400Hz/−19dB (87mV)	Check	OUTPUT : −5dB ± 3dB (308mV~615mV)	
8. Min. MIC input level 最小マイク入力レベル	Connection : Fig. 3-5 REC LEVEL Control:MIN MIC LEVEL Controls:MAX	MIC : 400Hz/−67dB (346μV)	Check	OUTPUT : −5dB ± 3dB (308mV~615mV)	
9. Specified LINE input level 規定ライン入力レベル	Connection : Fig. 3-5 MIC LEVEL Controls:MIN	LINE IN : 400Hz/−9dB (275mV)	REC LEVEL Control	OUTPUT : −5dB (436mV)	After adjusting, do not move (Specific position) 調整後は動かさないこと（規定位置）
10. Monitor S/N ratio モニター S/N比	Connection : Fig. 3-5	LINE IN : No signal 無信号	Check	60dB min.	Ratio of −5dB reference level to noise 規定出力−5dBとの比

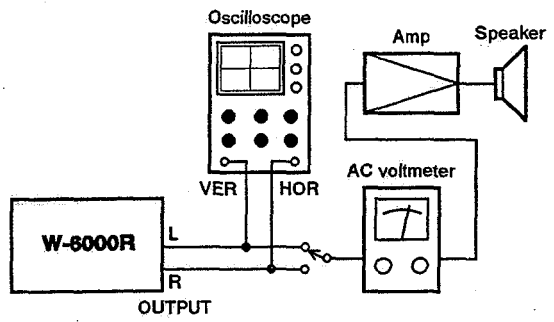


Fig. 3-6 Test setup for azimuth check

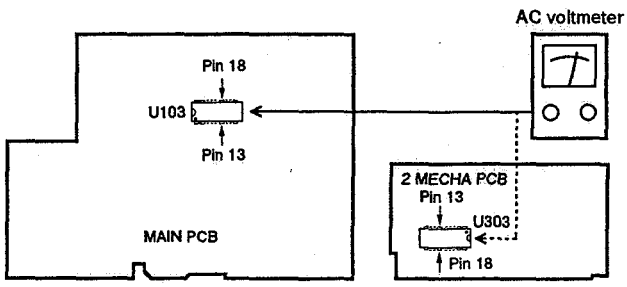


Fig. 3-9 Test setup for specified output level and peak hold adjustment

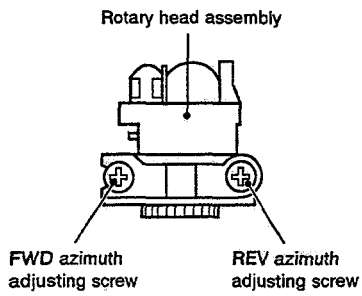


Fig. 3-7 Azimuth screw location

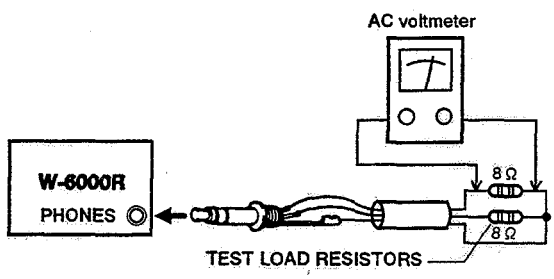


Fig. 3-10 Test setup for PHONES check

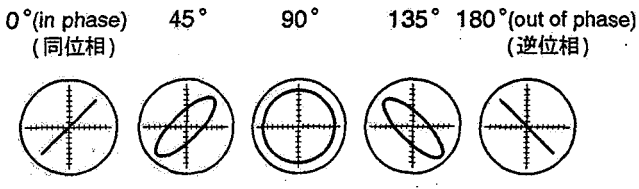


Fig. 3-8 Confirming phase relationship

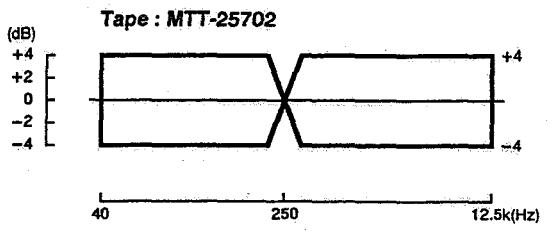


Fig. 3-11 Playback frequency response

3-2-5 RECORDING PERFORMANCE 録音系

Deck settings :
- DOLBY NR Switch : OFF
- REC LEVEL Control : Specified position (item9)
- BALANCE Control : Center position
- TAPE MIX (1) Control : MIN
- MIC LEVEL Controls : MIN

TEAC recording test tapes :
- MTT-5511 : For NORMAL
- MTT-5561 : For CrO_2
- MTT-5571 : For METAL

ITEM	SETTING	INPUT SIGNAL	ADJUST (or CHECK)	MEASURING POINT, RESULT	REMARKS
11. Bias OSC バイアス発振器	Connection : Fig. 3-12 TAPE : MTT-5511 Mode : RECORD	LINE IN : No signal 無信号	L106	P108-2 : 100kHz	DECK I
			L306	P308-2 : 100kHz	DECK II
12. Step up coil ステップアップコイル	Connection : Fig. 3-13 TAPE : MTT-5571 Mode : RECORD	LINE IN : No signal 無信号	L104/L204	U111 Pin6/Pin13 : Min. DC voltage DC電圧最小	DECK I
			L304/L404	U307 Pin6/Pin13 : Min. DC voltage DC電圧最小	DECK II
13. Record bias 録音バイアス	Connection : Fig. 3-5 TAPE : MTT-5511 Mode : REC/PLAY	LINE IN : 250Hz/−34dB 10kHz/−34dB (15.5mV)	R14/R24	OUTPUT : Nearly equal level at both frequencies 両出力レベルがほぼ等しくなるよう調整	DECK I
			R34/R44		DECK II
14. MPX filter MPXフィルター	Connection : Fig. 3-5 DOLBY NR SW: □□B/□□C Mode : REC-PAUSE	LINE IN : 19kHz ± 10Hz/ −12dB (195mV)	L101/L201	30dB min.	DECK I Ratio of −5dB ref. level to signal 規定出力レベル−5dBとの比
			L301/L401		DECK II
15. Record level 録音レベル	Connection : Fig. 3-5 TAPE : MTT-5511 Mode : REC/PLAY	LINE IN : 400Hz/−12dB (195mV)	R13/R23	OUTPUT : −8dB ± 1dB (275mV~346mV)	DECK I
			R33/R43		DECK II
16. Total harmonic distortion 総合歪率	Connection : Fig. 3-5 TAPE : MTT-5511 TAPE : MTT-5561 TAPE : MTT-5571	LINE IN : 400Hz/−12dB (195mV)	Check	NORMAL : 2.0% CrO_2 : 2.5% METAL : 2.5%	
17. Overall frequency response 総合周波数特性	Connection : Fig. 3-5 TAPE : MTT-5511 TAPE : MTT-5561 TAPE : MTT-5571	LINE IN : 60Hz~12.5kHz/ −34dB (15.5mV)	Check	OUTPUT : Fig. 3-14	
18. Overall S/N ratio 総合S/N比	Connection : Fig. 3-5 TAPE : MTT-5511 TAPE : MTT-5561 TAPE : MTT-5571	LINE IN : No signal 無信号	Check	NORMAL : 45dB min. CrO_2 : 46dB min. METAL : 46dB min.	Ratio of −5dB ref. level to noise 規定出力レベル−5dBとの比
19. Erase efficiency 消去効果	Connection : Fig. 3-5 1kHz B.P.F in TAPE : MTT-5571	LINE IN : 1kHz/+1dB (870mV)	Check	65dB min.	Find the difference between the 1kHz recorded portion and the erased portion. 1kHz録音部分とそれを消去した部分との出力レベルの差.

ITEM	SETTING	INPUT SIGNAL	ADJUST (or CHECK)	MEASURING POINT, RESULT	REMARKS
20. REC MUTE function REC MUTE 効果	Connection : Fig. 3-5 1kHz B.P.F in TAPE : MTT-5571	LINE IN : 1kHz/+1dB (870mV)	Check	55dB min.	Find the difference between the 1kHz portion and the "REC MUTE"portion. 1kHz録音部分とREC MUTE部分との出力レベルの差.
21. Channel seperation チャンネルセパレーション	Connection : Fig. 3-5 1kHz B.P.F in TAPE : MTT-5561	LINE IN : Lch : 1kHz/−9dB (275mV) Rch : No signal 無信号	Check	35dB min.	Find the difference between the 1kHz recorded portion (Lch) and the no signal portion (Rch). 1kHz録音部分 (Lch) と無信号録音部分 (Rch) との出力レベルの差.
22. Adjacent track crosstalk トラック間クロストーク	Connection : Fig. 3-5 TAPE : MTT-5571	LINE IN : Lch : No signal 無信号 Rch : 125Hz/−9dB (275mV)	Check	40dB min.	Invert tape and play Rch track. Check leckage level against the output reference of previously recorded portion. 1kHz録音部分 (Rch) の再生出力レベルを基準レベルとし、テープを反転して再生したときのRch出力レベルとの差.
23. Peak hold ピークホールド	Connection : Fig. 3-9 TAPE : MTT-5511	LINE IN : 400Hz/−6dB (388mV)	REC LEVEL Control	DOLBY T.P. U103 Pin18/Pin13 : +5dB (1.38V)	
	Connection : Fig. 3-15 TAPE : MTT-5511	LINE IN : Lch : 400Hz/−6dB (388mV) Rch : No signal 無信号	R15	D526 W148	Adjust to get the same DC voltage* between D526 and W148. * Tolerance : ±10mV based on voltage at D526. D526とW148のDC電圧が同じ*になるように調整する。 *許容差 : D526の電圧を基準にして±10mV
		LINE IN : Lch : No signal 無信号 Rch : 400Hz/−6dB (388mV)	R25		

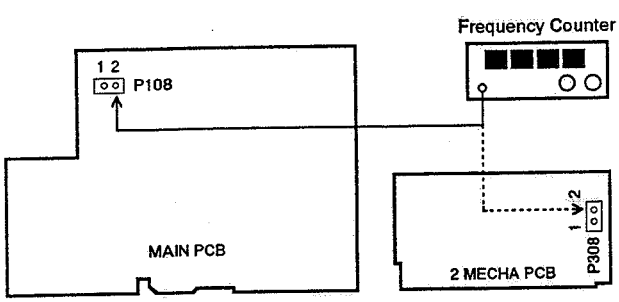


Fig. 3-12 Test setup for bias OSC adjustment

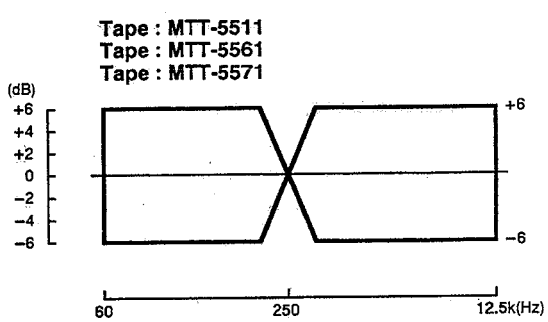


Fig. 3-14 Overall frequency response

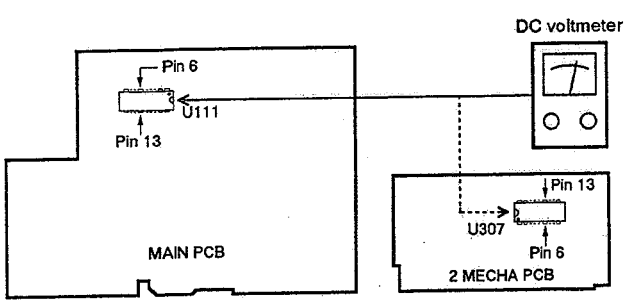


Fig. 3-13 Test setup for step up coil adjustment

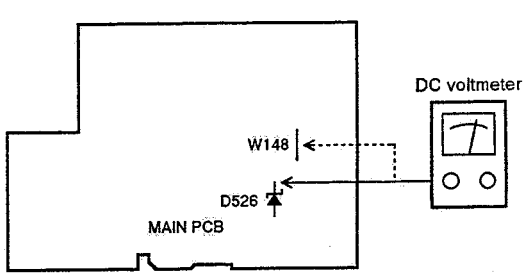
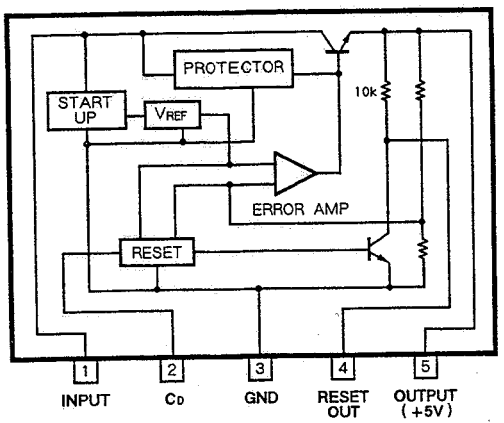


Fig. 3-15 Test setup for peak hold adjustment

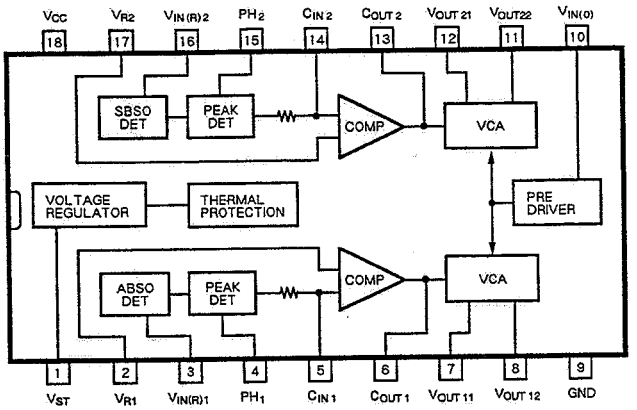
4. IC BLOCK DIAGRAMS

IC ブロック ダイアグラム

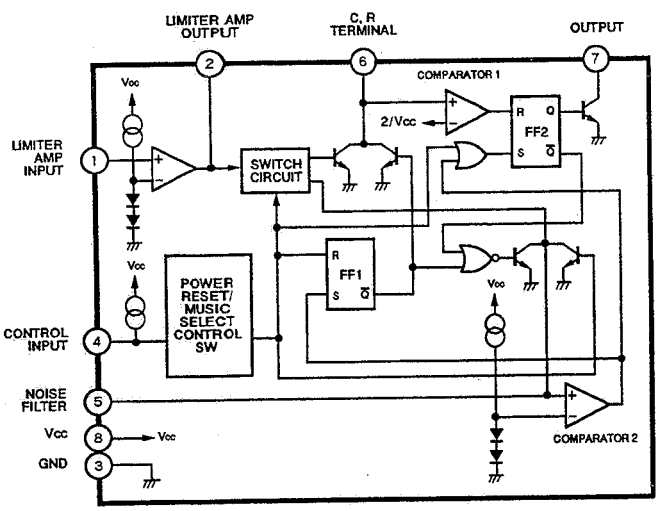
L78MR05



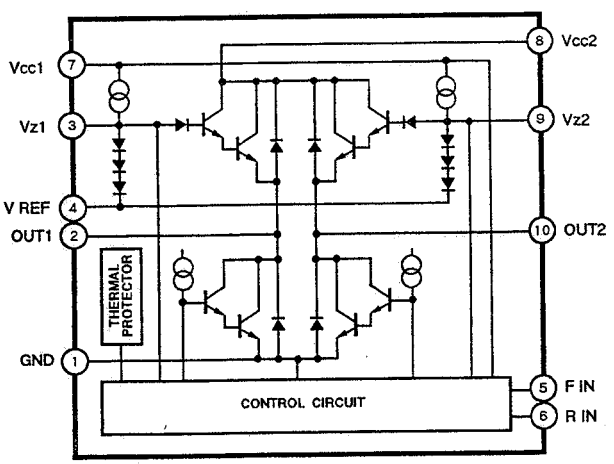
μPC1297CA



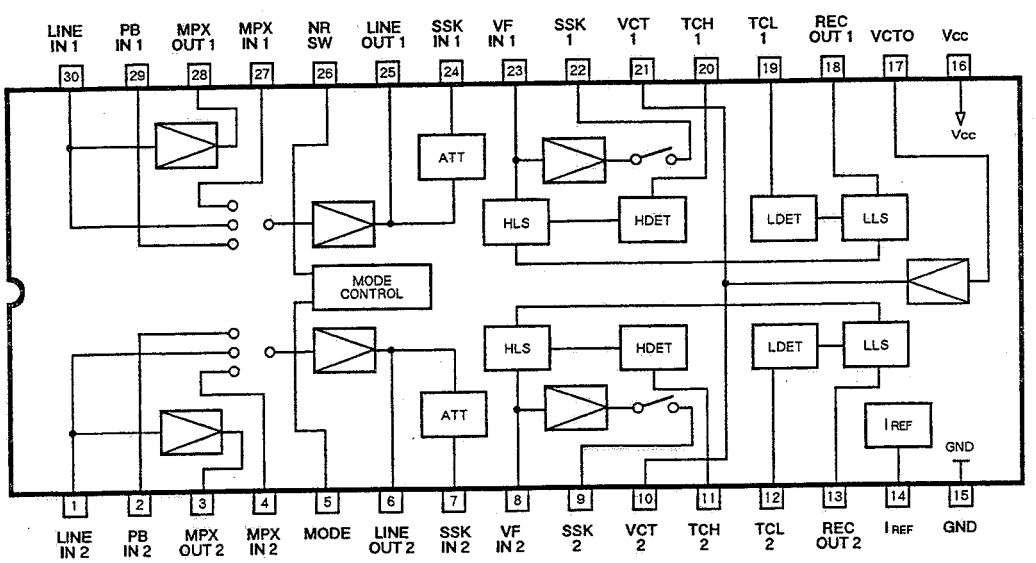
M51143AL



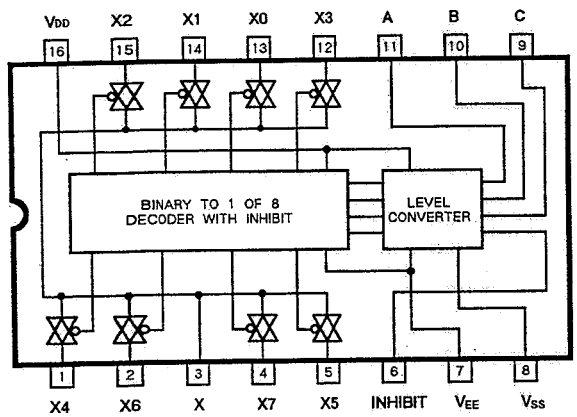
BA6219B



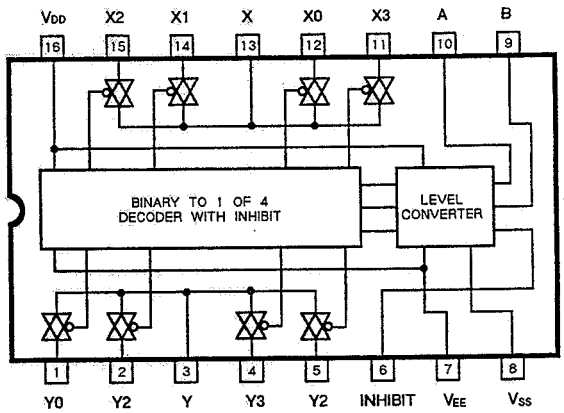
CXA1331S



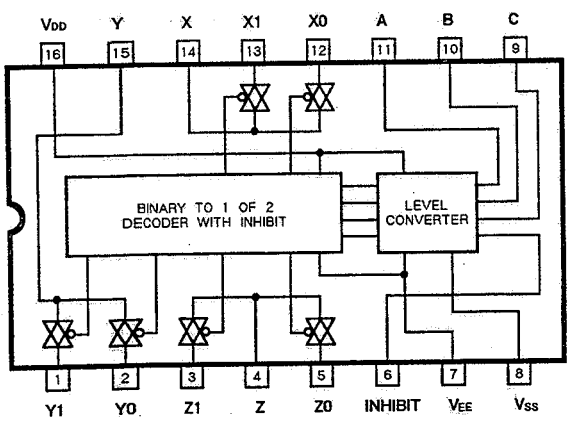
BU4051B


VDD X2 X1 X0 X3 A B C
16 15 14 13 12 11 10 9
BINARY TO 1 OF 8
DECODER WITH INHIBIT
LEVEL
CONVERTER
1 2 3 4 5 6 7 8
X4 X6 X X7 X5 INHIBIT VEE VSS

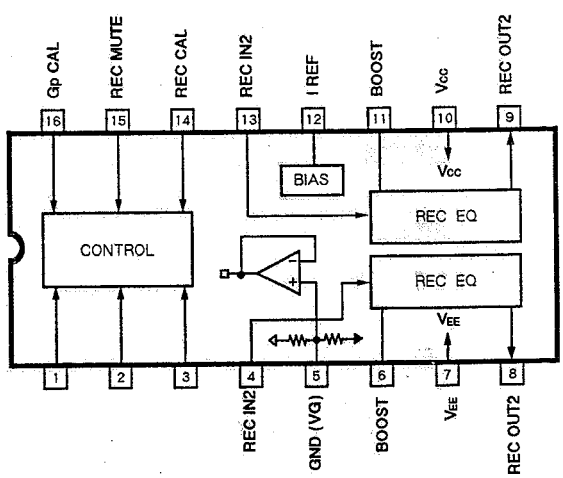
BU4052B


VDD X2 X1 X X0 X3 A B
16 15 14 13 12 11 10 9
BINARY TO 1 OF 4
DECODER WITH INHIBIT
LEVEL
CONVERTER
1 2 3 4 5 6 7 8
Y0 Y2 Y Y3 Y2 INHIBIT VEE VSS

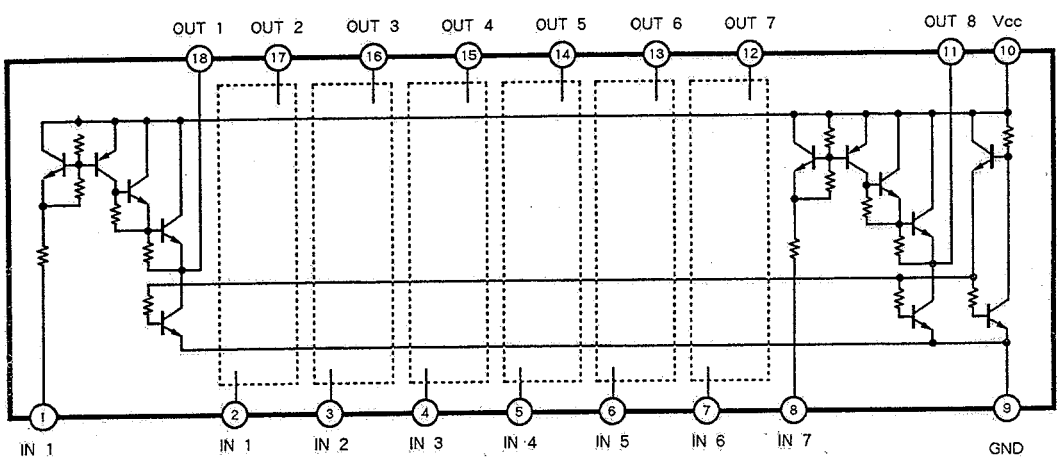
BU4053B


VDD Y X X1 X0 A B C
16 15 14 13 12 11 10 9
BINARY TO 1 OF 2
DECODER WITH INHIBIT
LEVEL
CONVERTER
1 2 3 4 5 6 7 8
Y1 Y0 Z1 Z Z0 INHIBIT VEE VSS

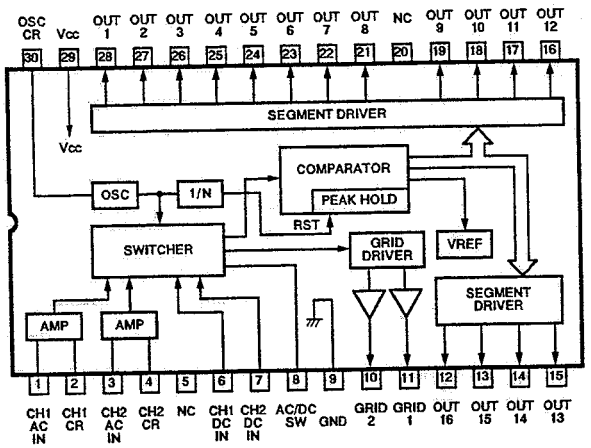
CXA1398P


Gp CAL REC MUTE REC CAL REC IN2 I REF BOOST VCC REC OUT2
16 15 14 13 12 11 10 9
BIAS
VCC
REC EQ
CONTROL
REC EQ
VEE
1 2 3 4 5 6 7 8
REC IN2 GND (VG) BOOST VEE REC OUT2

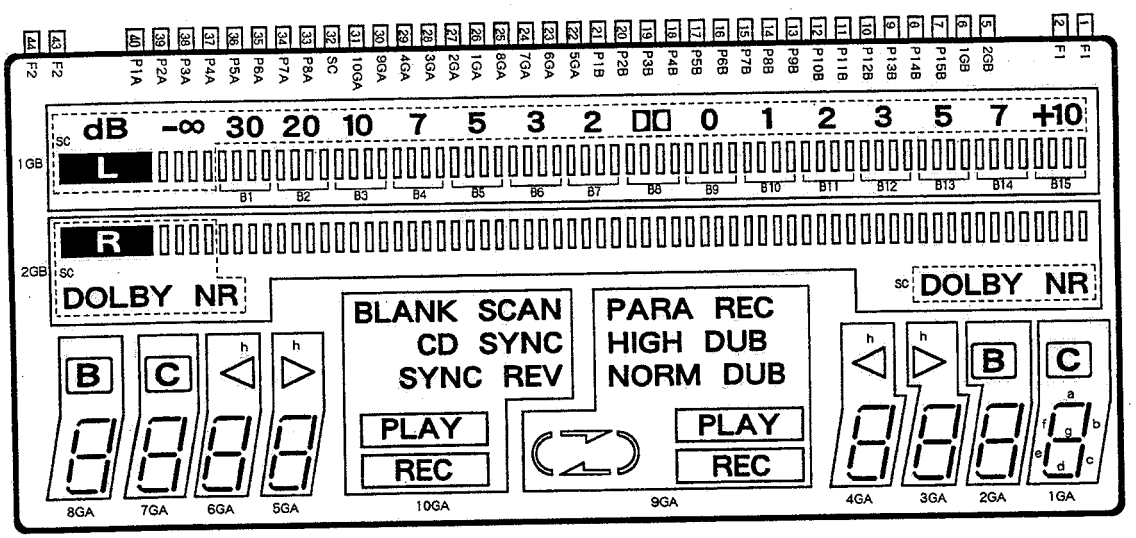
LB1240



BA6800AS



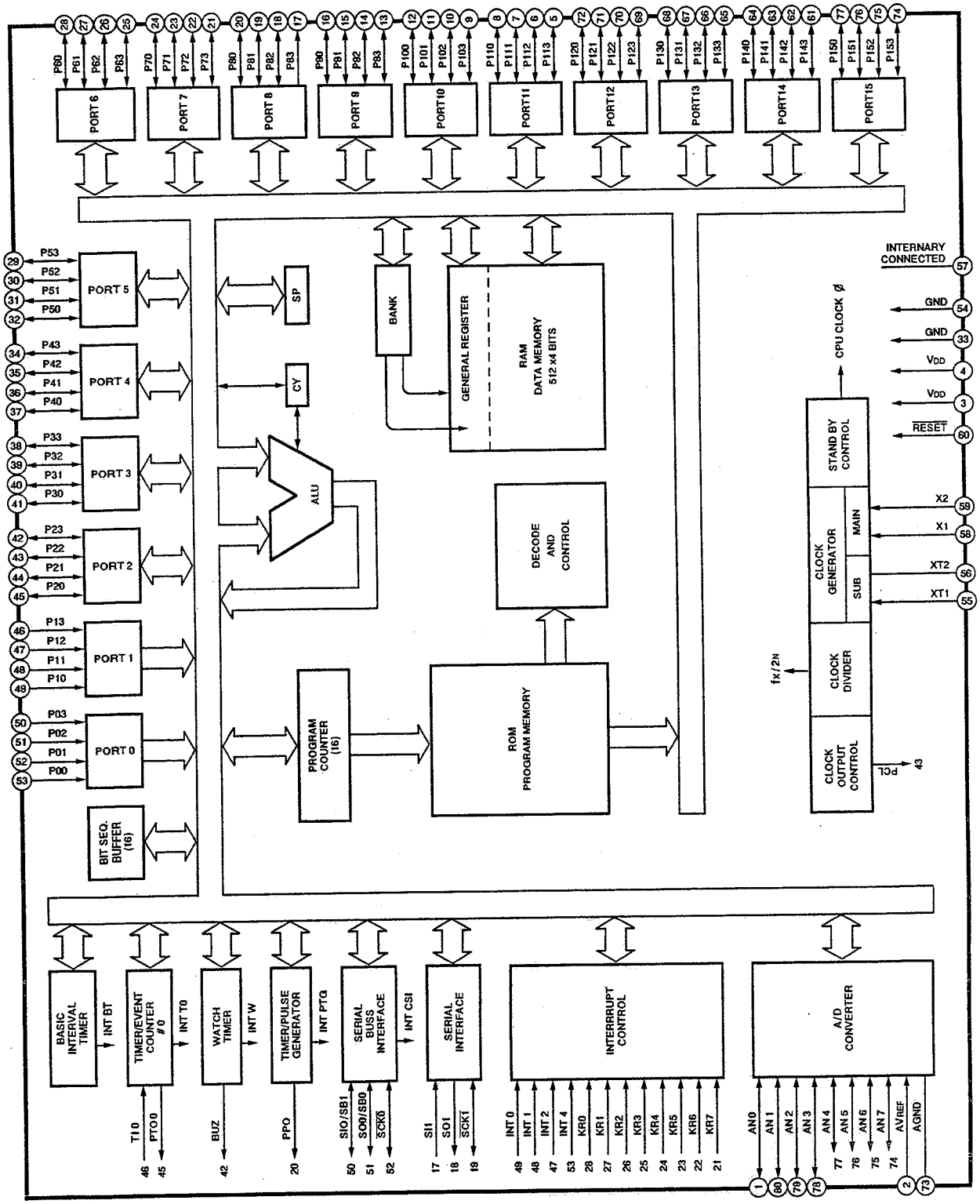
BG-875GK



GRID / ANODE		31	30	25	24	23	22	29	28	27	26
		10GA	9GA	8GA	7GA	6GA	5GA	4GA	3GA	2GA	1GA
40	P1A	BLANK SCAN	PARA REC	a	a	a	a	a	a	a	a
39	P2A	CD SYNC	HIGH DUB	b	b	b	b	b	b	b	b
38	P3A	SYNC REV	NORM DUB	c	c	c	c	c	c	c	c
37	P4A	PLAY	PLAY	d	d	d	d	d	d	d	d
36	P5A	REC	REC	e	e	e	e	e	e	e	e
35	P6A	–	)	f	f	f	f	f	f	f	f
34	P7A	–	(	g	g	g	g	g	g	g	g
33	P8A	–	⇄	B	C	◁	▷	◁	▷	B	C

GRID / ANODE		21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	32
		P1B	P2B	P3B	P4B	P5B	P6B	P7B	P8B	P9B	P10B	P11B	P12B	P13B	P14B	P15B	P16B
5	2GB	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13	B14	B15	SC
6	1GB	B1	B2	B3	B4	B5	B6	B8	B8	B9	B10	B11	B12	B13	B14	B15	SC

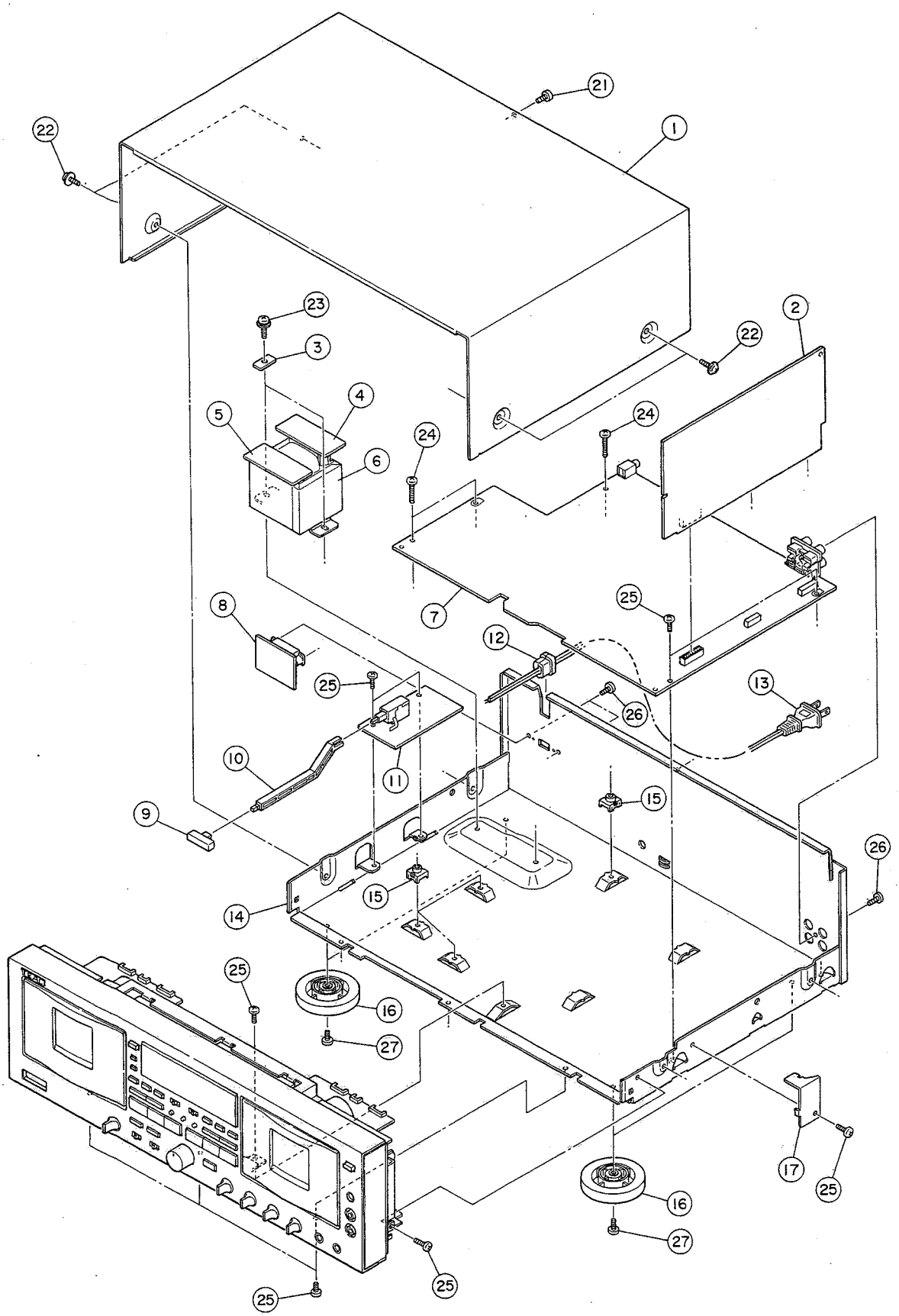
μPD75512


PORT 6
PORT 7
PORT 8
PORT 9
PORT10
PORT11
PORT12
PORT13
PORT14
PORT15
PORT 5
PORT 4
PORT 3
PORT 2
PORT 1
PORT 0
BIT SEQ. BUFFER (16)
SP
CY
ALU
BANK
GENERAL REGISTER
RAM DATA MEMORY 512 x4 BITS
DECODE AND CONTROL
PROGRAM COUNTER (16)
ROM PROGRAM MEMORY
STAND BY CONTROL
CLOCK GENERATOR
MAIN
SUB
CLOCK DIVIDER
CLOCK OUTPUT CONTROL
INTERNARY CONNECTED
CPU CLOCK ϕ
GND
VDD
RESET
X2
X1
XT2
XT1
BASIC INTERVAL TIMER
TIMER/EVENT COUNTER #0
WATCH TIMER
TIMER/PULSE GENERATOR
SERIAL BUSS INTERFACE
SERIAL INTERFACE
INTERRRUPT CONTROL
A/D CONVERTER
INT BT
INT T0
INT W
INT PTG
INT CSI
T10
PTO0
BUZ
PPO
SIO/SB1
SO0/SB0
SCK0
SI1
SO1
SCK1
INT 0
INT 1
INT 2
INT 4
KR0
KR1
KR2
KR3
KR4
KR5
KR6
KR7
AN0
AN1
AN2
AN3
AN4
AN5
AN6
AN7
AVREF
AGND

5. EXPLODED VIEWS AND PARTS LIST

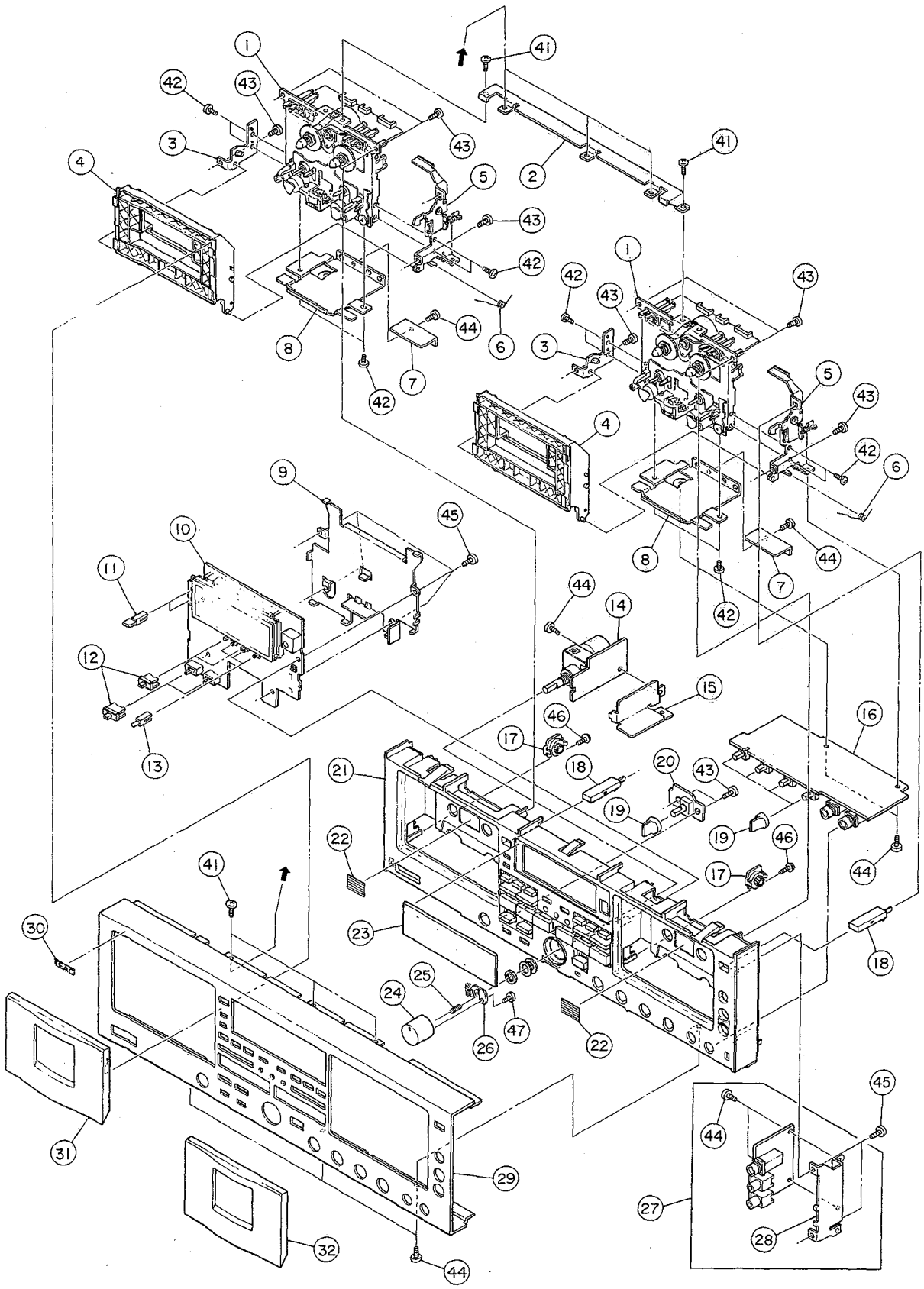
分解図とパーツリスト

EXPLODED VIEW-1



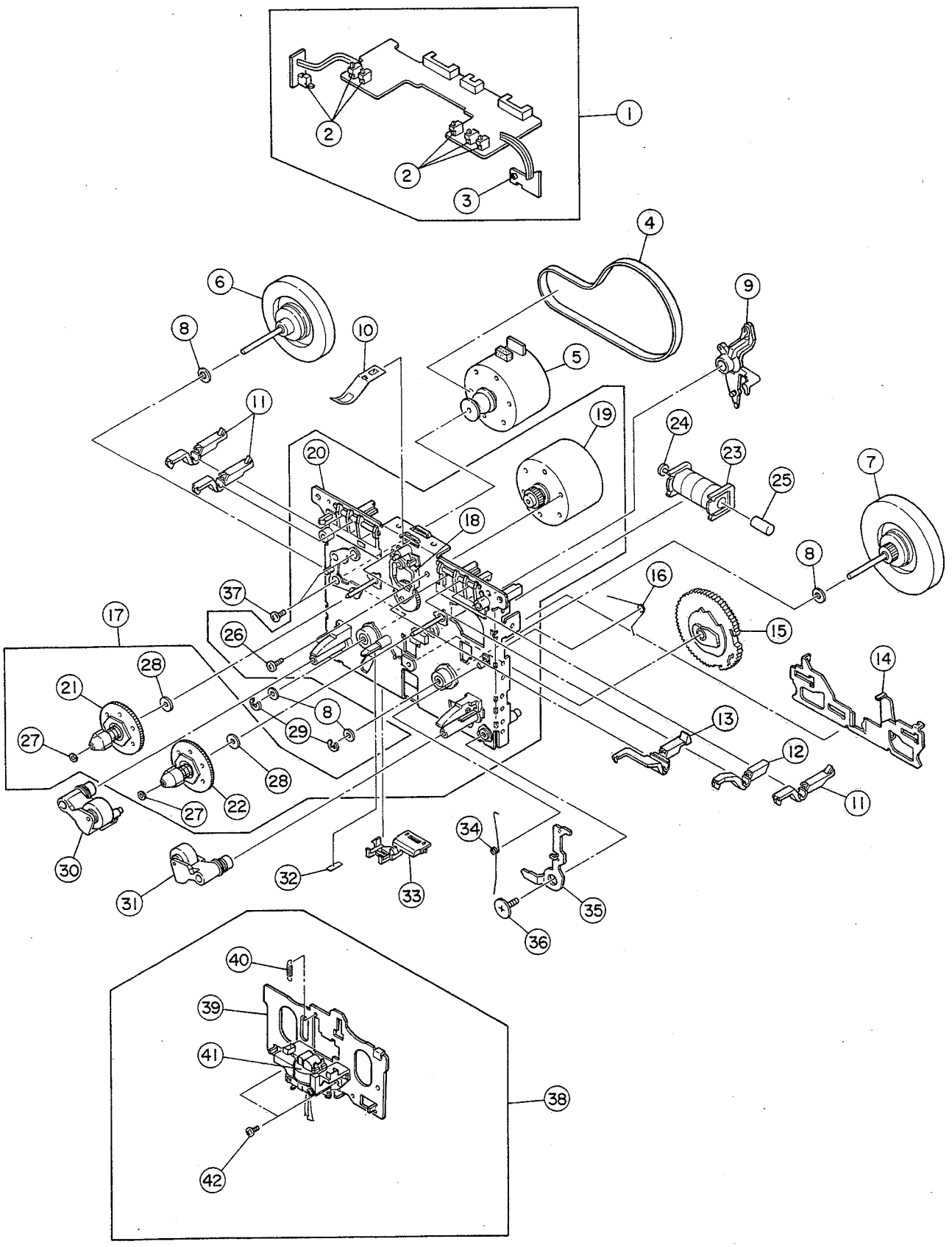
REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
1- 1	*9260167200	BONNET	
1- 2	*9145107101	2 MECHA. PCB ASSY	
1- 3	*9260158500	TR BRACKET	
1- 4	*9155107800	TRANS (1) PCB	
1- 5	*9145017900	TRANS (2) PCB ASSY	
1- 6	⚠ 9125092001	POWER TRANS.	
1- 7	*9145108101	MAIN PCB ASSY	
1- 8	*9145107500	SELECTOR PCB ASSY [GE]	
1- 9	*9260132900	BUTTON, POWER	
1-10	*9260165900	POWER LINKAGE	
1-11	*9145107400	SW PCB ASSY [US,C,GE,J]	
	*9145107410	SW PCB ASSY [E,A,UK]	
1-12	⚠ 9121000100	BUSHING, #2271 [All except C]	
	⚠ 9121000101	BUSHING, #2271 [C]	
1-13	⚠ 5350010700	AC CORD [C,GE]	
	⚠ 9109025701	AC CORD [E]	
	⚠ 9109026000	AC CORD [A]	
	⚠ 9109026100	AC CORD [J]	
	⚠ 9109026901	AC CORD [US]	
	⚠ 9109025901	AC CORD [UK]	
1-14	*9260163600	MAIN CHASSIS [US,C]	
	*9260163700	MAIN CHASSIS [GE]	
	*9260164400	MAIN CHASSIS [E,A,UK,J]	
1-15	*9260151300	PCB SUPPORT	
1-16	*9260113901	FOOT ASSY	
1-17	*9260163900	PCB BRACKET	
1-21	*9783593008	SCREW, C-TITE M3X8(NI-BLK)	
1-22	*9783053006	SCREW, CAP-S M3X6 (BLK)	
1-23	*9783294010	SCREW, BTB-S M4X10	
1-24	*9783203012	SCREW, BTT-S M3X12	
1-25	*9783203006	SCREW, BTT-S M3X6	
1-26	*9783613008	SCREW, BTT-P M3X8 (BLK) [GE]	
1-27	*9783203008	SCREW, BTT-S M3X8	

EXPLODED VIEW-2



REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
2- 1		CASSETTE MECHA. ASSY	
2- 2	*9260164200	TOP PLATE	
2- 3	*9260163100	MECH RACKET (L)	
2- 4	*9260163201	HAFT HOLDER ASSY	
2- 5	*9260162602	MECHA. BRACKET (R) ASSY	
2- 6	*9260162801	SPRING, HOLDER UP	
2- 7	*9260168500	HEAD H.S PLATE	
2- 8	*9260162501	SHIELD PLATE (HEAD)	
2- 9	*9260164000	MOUNTING PLATE	
2-10	*9145107200	FRONT PCB ASSY	
2-11	*9260165500	BUTTON, CLEAR	
2-12	*9260166001	KNOB, SLIDE	
2-13	*9260165600	BUTTON, CIRCLE	
2-14	*9145108200	VR PCB ASSY	
2-15	*9260163800	REC PCB PLATE	
2-16	*9145107301	MIC PCB ASSY	
2-17	*9260173300	DAMPER	
2-18	*9260165800	BUTTON, EJECT	
2-19	*9260165700	KNOB, VR	
2-20	*9145107700	PITCH PCB ASSY	
2-21	*9260164903	ESCUTCHEON SUB ASSY	
2-22	*5800822400	PLATE, TAPE INDICA.	
2-23	*9260167300	DISPLAY WINDOW	
2-24	*9260166100	KNOB CAP ASSY	
2-25	*9260164800	SPRING, GND	
2-26	*9145107600	LED PCB ASSY	
2-27	*9145108301	JACK PCB ASSY	
2-28	*9260164100	JACK BRACKET	
2-29	*9260167101	FRONT PANEL	
2-30	*5801413200	NAME PLATE, TEAC	
2-31	*9260166600	LID ASSY (1)	
2-32	*9260166900	LID ASSY (2)	
2-41	*9783202605	SCREW, BTT-S M2.6X5	
2-42	*9783202604	SCREW, BTT-S M2.6X4	
2-43	*9783603008	SCREW, BTT-P M3X8	
2-44	*9783203006	SCREW, BTT-S M3X6	
2-45	*9783603008	SCREW, BTT-P M3X8	
2-46	*9783402608	SCREW, CPA-P M2.6X8	
2-47	*9783602608	SCREW, BTT-P M2.6X8	

EXPLODED VIEW-3



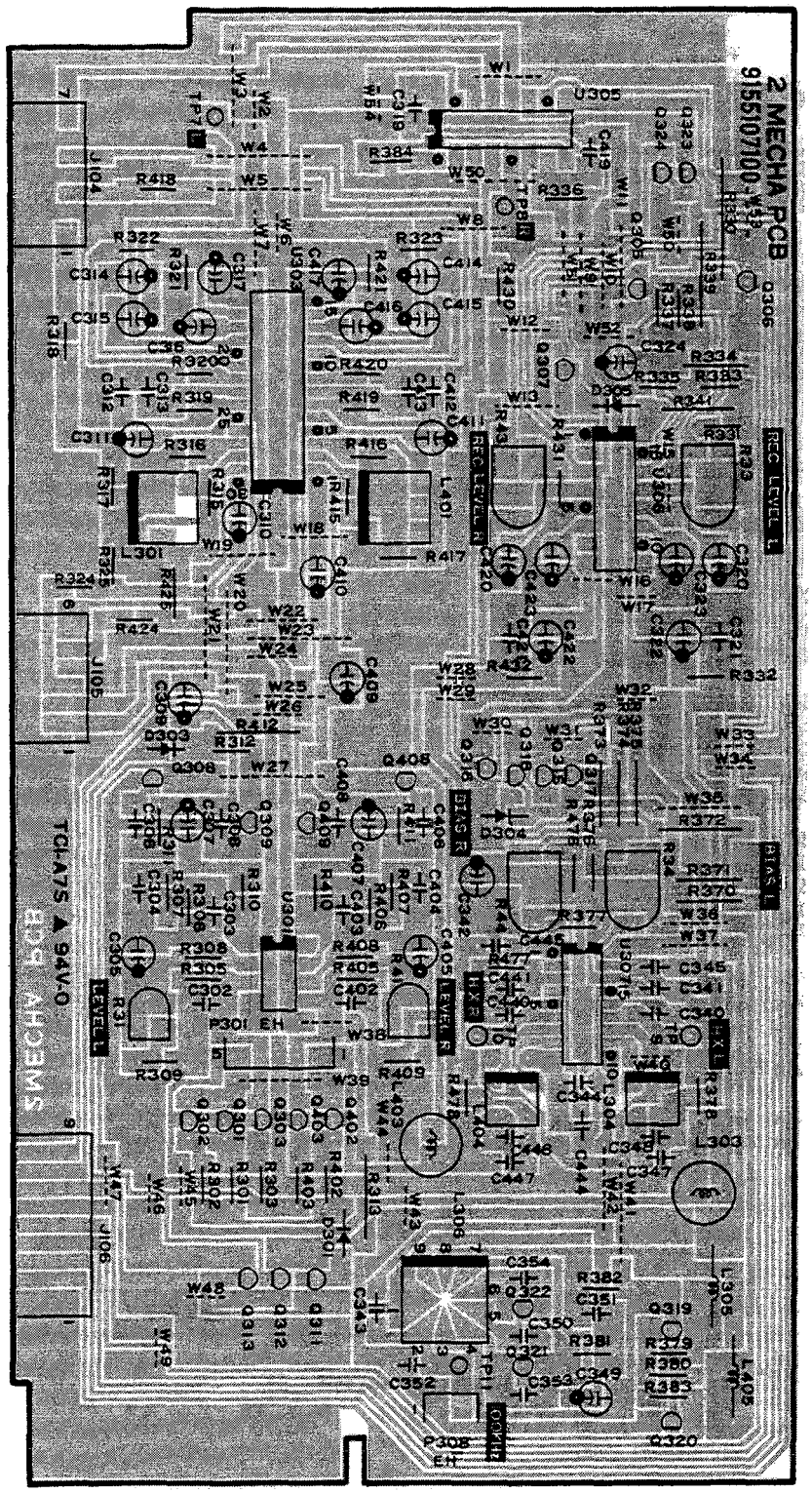
REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
3- 1	*5761794500	PCB CONTROL BLK	
3- 2	5761748700	SW, PUSH	
3- 3	*5761793900	GP2S04B, AZ15S-00	
3- 4	5761790900	BELT, MAIN	
3- 5	5761794400	MOTOR MAIN BLK	
3- 6	5761791400	FLYWHEEL ASSY, (2.0)	
3- 7	5761791300	FLYWHEEL ASSY, (2.2)	
3- 8	*5761689200	POLYSLIDER	
3- 9	*5761790400	ARM, PLAY	
3-10	*5761790100	SPRING, CASSETTE HOLD.	
3-11	*5761790600	REC SENS. LEVER	
3-12	*5761790700	PACK SENS. LEVER (L)	
3-13	*5761794800	METAL SENS. LEVER	
3-14	*5761790200	SLIDE PLATE	
3-15	5761790500	GEAR, CAM (3R)	
3-16	*5761791200	SPRING, SLIDE	
3-17	*5761792100	CHASSIS BLK	
3-18	5761792200	IDLER BLK	
3-19	5761792300	MOTOR, REEL BLK	
3-20	*5761852300	CHASSIS BASE BLK	
3-21	5761792500	REEL BASE BLK L	
3-22	5761792600	REEL BASE BLK R	
3-23	5761792700	SOLENOID	
3-24	5761792900	SOLENOID	
3-25	*5761793000	PIN, SOLENOID	
3-26	*5761792800	SCREW, PAN 2.6X6 2N	
3-27	*5761745600	POLYSLIDER	
3-28	*5761745500	POLYSLIDER	
3-29	*5761791900	E RING	
3-30	5761791600	PINCH ROLLER ASSY, L	
3-31	5761791500	PINCH ROLLER ASSY, R	
3-32	*5761792000	REFLECT. PLATE	
3-33	*5761790300	LEAD HOLDER	
3-34	*5761795000	SPRING, EJECT PREVENT. (R)	
3-35	*5761794700	EJECT PREVENT. ARM (R)	
3-36	*5761746700	SCREW, STEP	
3-37	*5761745900	SCREW, PAN SW 2.6X6ZN	
3-38	*5761794100	PLATE HD BLK	
3-39	*5761852200	HEAD BASE	
3-40	*5761793300	SPRING, HB	
3-41	5761793400	HEAD, HADKH5557A	
3-42	*5761756100	SCREW, PAN TT2.0X4ZN	

INCLUDED ACCESSORIES

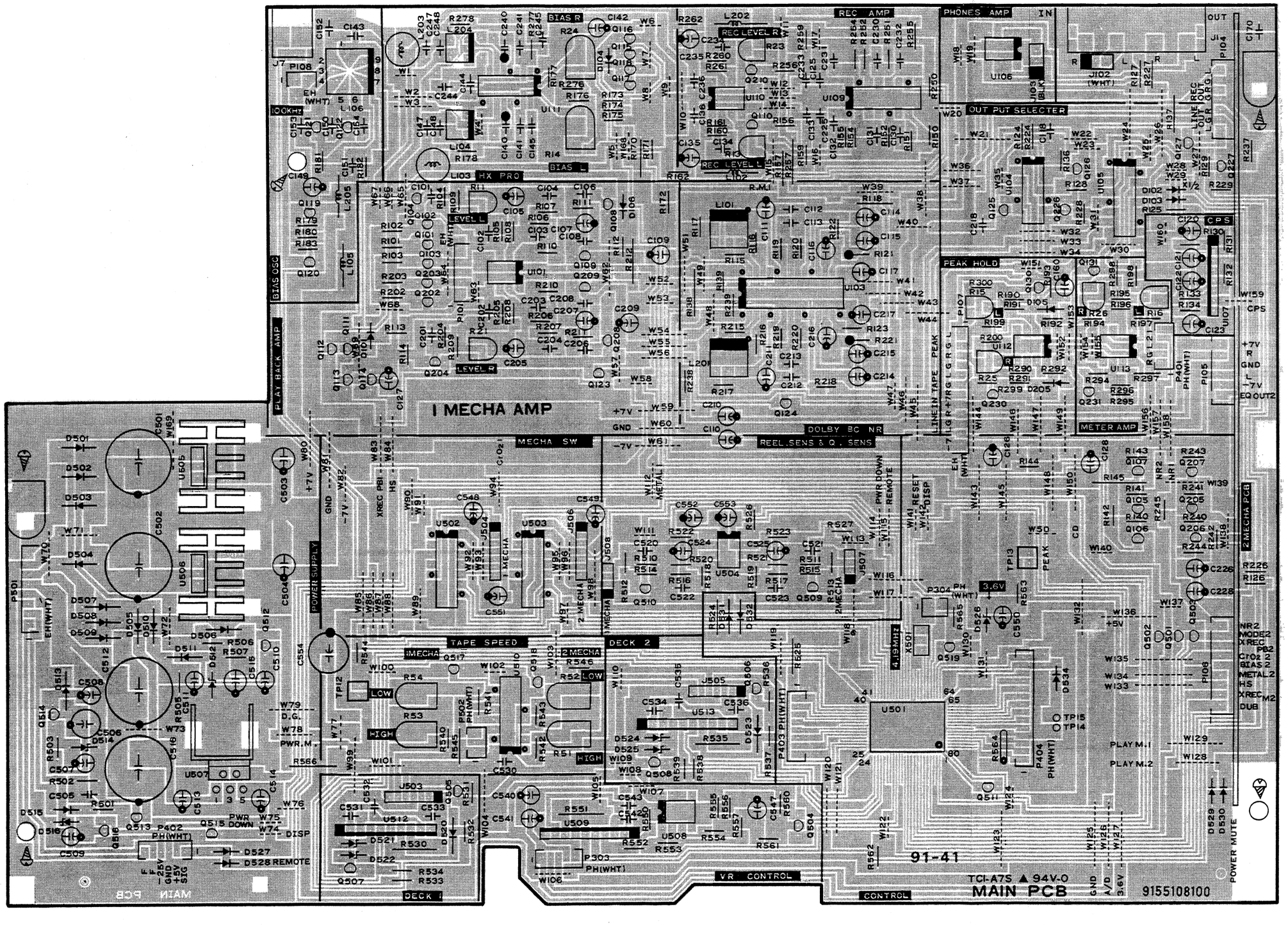
REF.NO.	PARTS NO.	DESCRIPTION	REMARKS
	*9101390400	OPE. MANUAL, JAPANESE [J]	
	*9101390301	OPE. MANUAL, MULTI LANG.[All except. J]	
	*9101391101	ARLS SHEET [All except. J]	
	5347016500	BATTERY, UM-4	
	9109027110	IN-OUTPUT CORD	
	*9151000800	REMOTE CONT. UNIT, RC-425	

6. PC BOARDS AND PARTS LIST
基板図とパーツリスト

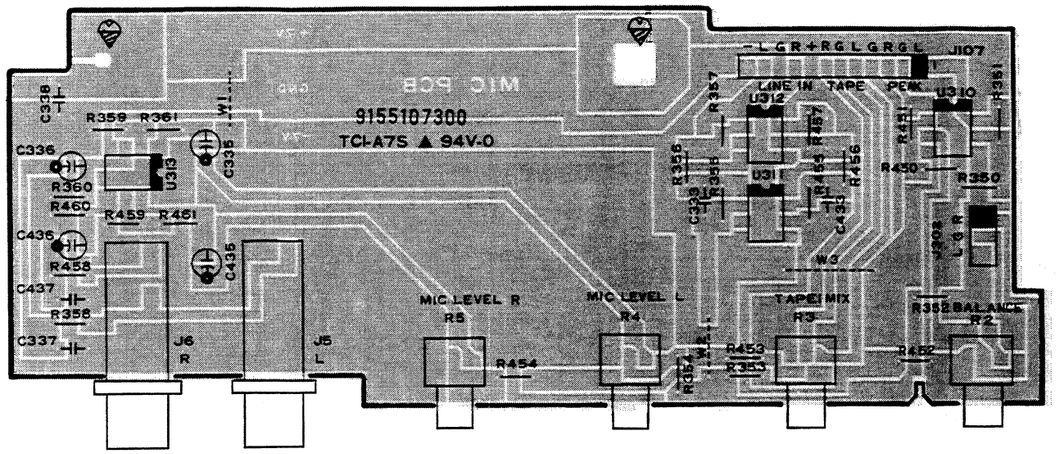
2 MECHA PCB



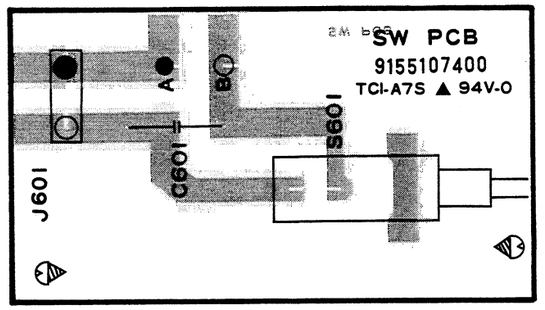
MAIN PCB


I MECHA AMP
REC AMP
PHONES AMP
OUT PUT SELECTER
PEAK HOLD
METER AMP
DOLBY BC NR
REEL SENS & Q SENS
MECHA SW
TAPE SPEED
DECK 2
DECK 1
VR CONTROL
CONTROL
POWER SUPPLY
BIAS OSC
PLAY BACK AMP
91-41
TCI-A7S ▲ 94V-0
MAIN PCB
9155108100

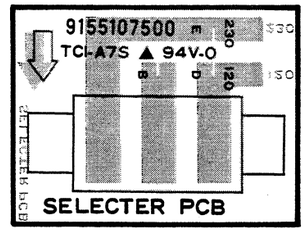
MIC PCB



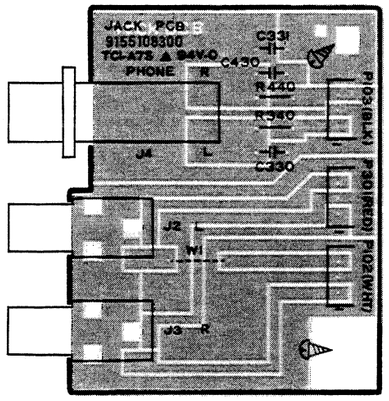
SW PCB



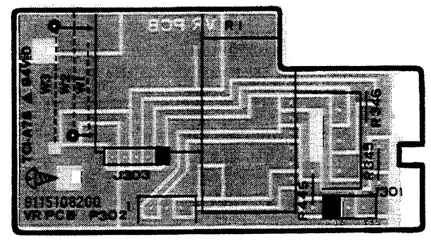
SELECTOR PCB



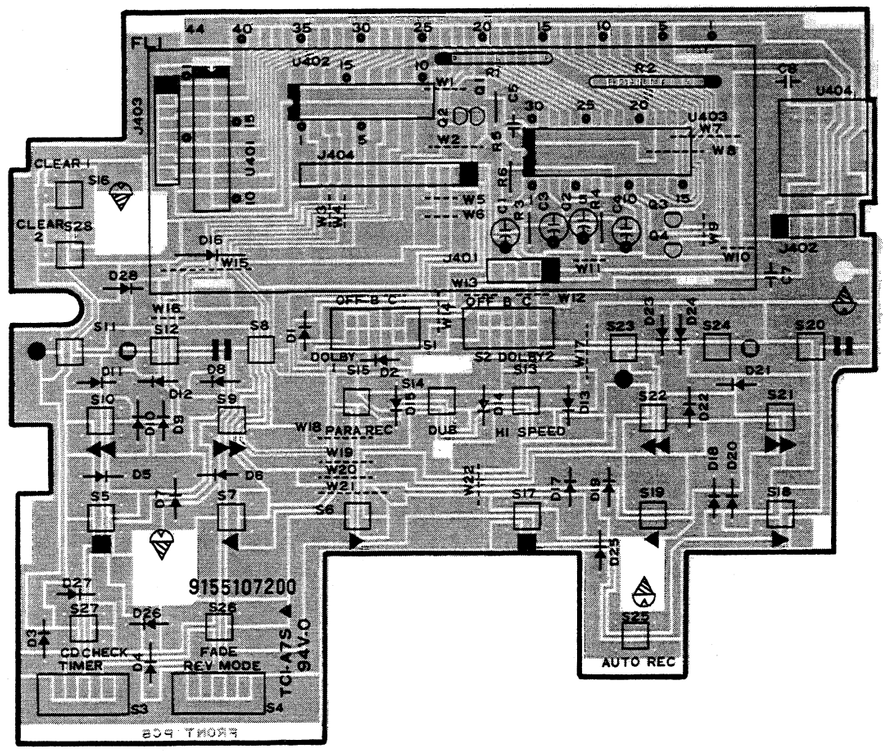
JACK PCB



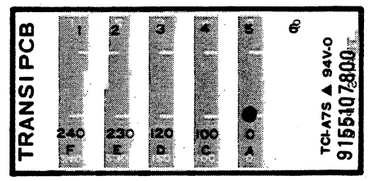
VR PCB



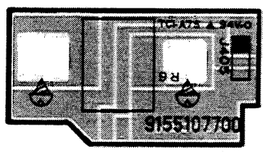
FRONT PCB



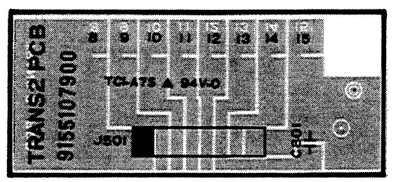
TRANS (1) PCB



PITCH PCB



TRANS (2) PCB



LED PCB

2 MECHA. PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	*9145107101	2 MECHA. PCB ASSY
	*9155107100	2 MECHA. PCB
D301	9165022150	DIODE, 1SS133T
D303-305	9165022150	DIODE, 1SS133T
J104	9140099007	SOCKET, 7P
J105	9140099006	SOCKET, 6P
J106	9140099009	SOCKET, 9P
L301,401	9173007000	FILTER, LOW PASS MPX
L303,403	9122017600	COIL, BIAS TRAP 100KHZ
L304,404	9173007700	COIL, STEP UP
L305,405	9173006350	COIL, 220UH
L306	9173007200	COIL, OSC 100K
P301	9143173000	CONNECTOR PLUG, 5P
P308	9143170000	CONNECTOR PLUG, 2P
Q301	9163309420	TR, 2SC1815GR
Q302,402	9163309420	TR, 2SC1815GR
Q303,403	9163309420	TR, 2SC1815GR
Q305	9163011220	TR, DTA124ES
Q306,307	9163310420	TR, DTC124ES
Q308,408	9163310420	TR, DTC124ES
Q309,409	9163309420	TR, 2SC1815GR
Q311,312	9163011220	TR, DTA124ES
Q313	9163310420	TR, DTC124ES
Q315	9163011220	TR, DTA124ES
Q316	9163310420	TR, DTC124ES
Q317	9163011220	TR, DTA124ES
Q318	9163310420	TR, DTC124ES
Q319	9163011320	TR, 2SA933LN-S
Q320	9163310420	TR, DTC124ES
Q321,322	9163309420	TR, 2SC1815GR
Q323	9163011220	TR, DTA124ES
Q324	9163310420	TR, DTC124ES
R31,41	9112060100	VR, SEMI-FIXED 100 (B)
R33,43	9112003000	VR, SEMI-FIXED 10K (B)
R34,44	9112003000	VR, SEMI-FIXED 10K (B)
TP7-11	9160012600	PIN T.P
U301	9167014000	IC, UPC4570C
U303	9167019200	IC, CXA1331S
U305	9167019000	IC, BU4053B
U306	9167021200	IC, CXA1398P
U307	9167012800	IC, UPC1297CA

MAIN PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	*9145108101	MAIN PCB ASSY
	*9155108100	MAIN PCB
	*9783613008	SCREW, BTT-P M3X8 (BLK)
	*9260069801	HEAT SINK
	*9260167800	HEAD SINK

MAIN PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	9229021000	EARTH PLATE (A) PCB.
C501,502	⚠9117302200	C, ELEC 4700UF/16V
C506	⚠9117201020	C, ELEC 100UF/50V
C512	⚠9117302200	C, ELEC 4700UF/16V
C515	⚠9117199020	C, ELEC 100UF/25V
C516	⚠9117302200	C, ELEC 4700UF/16V
D101-106	9165022150	DIODE, 1SS133T
D205	9165022150	DIODE, 1SS133T
D501-511	⚠9165020508	DIODE, 1N4003
D512	9166040951	DIODE, ZENER RD4.7E L2
D513	⚠9165020508	DIODE, 1N4003
D514	9166042753	DIODE, ZENER RD27EL4
D515	9165022150	DIODE, 1SS133T
D516	9166041251	DIODE, ZENER RD6.2EL2
D520	9165020508	DIODE, 1N4003
D521	9166041351	DIODE, ZENER RD6.8EL2
D522	9166040651	DIODE, ZENER RD3.6EL2
D523	9165020508	DIODE, 1N4003
D524	9166041351	DIODE, ZENER RD6.8EL2
D525,526	9166040651	DIODE, ZENER RD3.6EL2
D527-532	9165022150	DIODE, 1SS133T
D534	9165022150	DIODE, 1SS133T
J1	9143188000	JACK, PIN 4P
J7	9143312000	JACK, MINIATURE
L101,201	9173007000	FILTER, LOW PASS MPX
L102,202	9122018900	COIL, 8.2MH
L103,203	9122017600	COIL, BIAS TRAP 100KHZ
L104,204	9173007700	COIL, STEP UP
L105,205	9173006300	COIL, 220UH
L106	9173007200	COIL, OSC 100K
P101	9143173000	CONNECTOR PLUG, 5P
P104	9143161000	CONNENTOR PLUG, 7P
P105	9143160000	CONNECTOR PLUG, 6P
P106	9143163000	CONNECTOR PLUG, 9P
P107	9143180000	CONNECTOR PLUG, 12P
P108	9143170000	CONNECTOR PLUG, 2P
P303	9143233000	CONNECTOR PLUG, 5P (WHT)
P304	9143230000	CONNECTOR PLUG, 2P (WHT)
P401	9143233000	CONNECTOR PLUG, 5P (WHT)
P402	9143234000	CONNECTOR PLUG, 6P (WHT)
P403	9143236000	CONNECTOR PLUG, 8P (WHT)
P404	9143242000	CONNECOTR PLUG, 14P
P501	9143176000	CONNECTOR PLUG, 8P
P502	9143231000	CONNECTOR PLUG, 3P (WHT)
Q101	9163309420	TR, 2SC1815GR
Q102,202	9163309420	TR, 2SC1815GR
Q103,203	9163309420	TR, 2SC1815GR
Q104,204	9163310420	TR, DTC124ES
Q105,205	9163011220	TR, DTA124ES
Q106,206	9163011220	TR, DTA124ES
Q107,207	9163310420	TR, DTC124ES
Q108,208	9163310420	TR, DTC124ES
Q109,209	9163309420	TR, 2SC1815GR
Q110,210	9163609820	TR, 2SD1450S.
Q110,210	9163609821	TR, 2SD1450T

MAIN PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
Q111,112	9163011220	TR, DTA124ES
Q113,114	9163310420	TR, DTC124ES
Q115	9163011220	TR, DTA124ES
Q116	9163310420	TR, DTC124ES
Q117	9163011220	TR, DTA124ES
Q118	9163310420	TR, DTC124ES
Q119	9163011320	TR, 2SA933LN-S
Q120	9163310420	TR, DTC124ES
Q121,122	9163309420	TR, 2SC1815GR
Q123	9163310420	TR, DTC124ES
Q124	9163011220	TR, DTA124ES
Q125	9163310420	TR, DTC124ES
Q126,226	9163310620	TR, 2SC2878A
Q127,227	9163310620	TR, 2SC2878A
Q130,230	9163310420	TR, DTC124ES
Q131,231	9163310420	TR, DTC124ES
Q501-503	9163011220	TR, DTA124ES
Q504	9163310420	TR, DTC124ES
Q505,506	9163608122	TR, 2SD734F
Q507,508	9163310420	TR, DTC124ES
Q509,510	9163309420	TR, 2SC1815GR
Q511	9163310420	TR, DTC124ES
Q512	9163011220	TR, DTA124ES
Q513	9163309420	TR, 2SC1815GR
Q514	⚠ 9163013120	TR, 2SA934R
Q515	9163011220	TR, DTA124ES
Q516-518	9163310420	TR, DTC124ES
Q519	9163011220	TR, DTA124ES
R11,21	9112060100	VR, SEMI-FIXED 100 (B)
R13,23	9112059800	VR, SEMI-FIXED 10K (B)
R14,24	9112003000	VR, SEMI-FIXED 10K (B)
R15,25	9112059800	VR, SEMI-FIXED 10K (B)
R16,26	9112059700	VR, SEMI-FIXED 47K (B)
R51	9112003000	VR, SEMI-FIXED 10K (B)
R52	9112017000	VR, SEMI-FIXED 20K (B)
R53	9112003000	VR, SEMI-FIXED 10K (B)
R54	9112017000	VR, SEMI-FIXED 20K (B)
R530	9114100110	R, METAL OXIDE 1W 47
R535	9114100110	R, METAL OXIDE 1W 47
R551	9114100110	R, METAL OXIDE 1W 47
R564	9111246000	R, ARRAY PYLS4J223
R566	9114101510	R, METAL OXIDE 2W 2.2
TP12,13	9160013000	TP PIN, 2P
TP14,15	9160012600	TP PIN
U101	9167014000	IC, UPC4570C
U103	9167019200	IC, CXA1331S
U104	9167011100	IC, BU4066B
U105	9167019000	IC, BU4053B
U106	9167015000	IC, M5218P
U107	5220426200	IC, M51143AL
U109	9167019800	IC, BU4052B
U110	9167015000	IC, M5218P
U111	9167012800	IC, UPC1297CA
U112,113	9167015000	IC, M5218P
U501	5220826600	LSI, UPD75512GF

MAIN PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
U502,503	9167018900	IC, BU4051B
U504	9167018800	IC, BA6993
U505	⚠ 5220432200	IC, M5F78M07L
U506	⚠ 5220432900	IC, M5F79M07L
U507	⚠ 9167021500	IC, L78MR05
U508	9167021000	IC, UPC358C
U509	9167021100	IC, BA6219
U510	9167019800	IC, BU4052B
U512,513	9167021100	IC, BA6219
X501	5347017700	OSC, EFO-GC4194A4

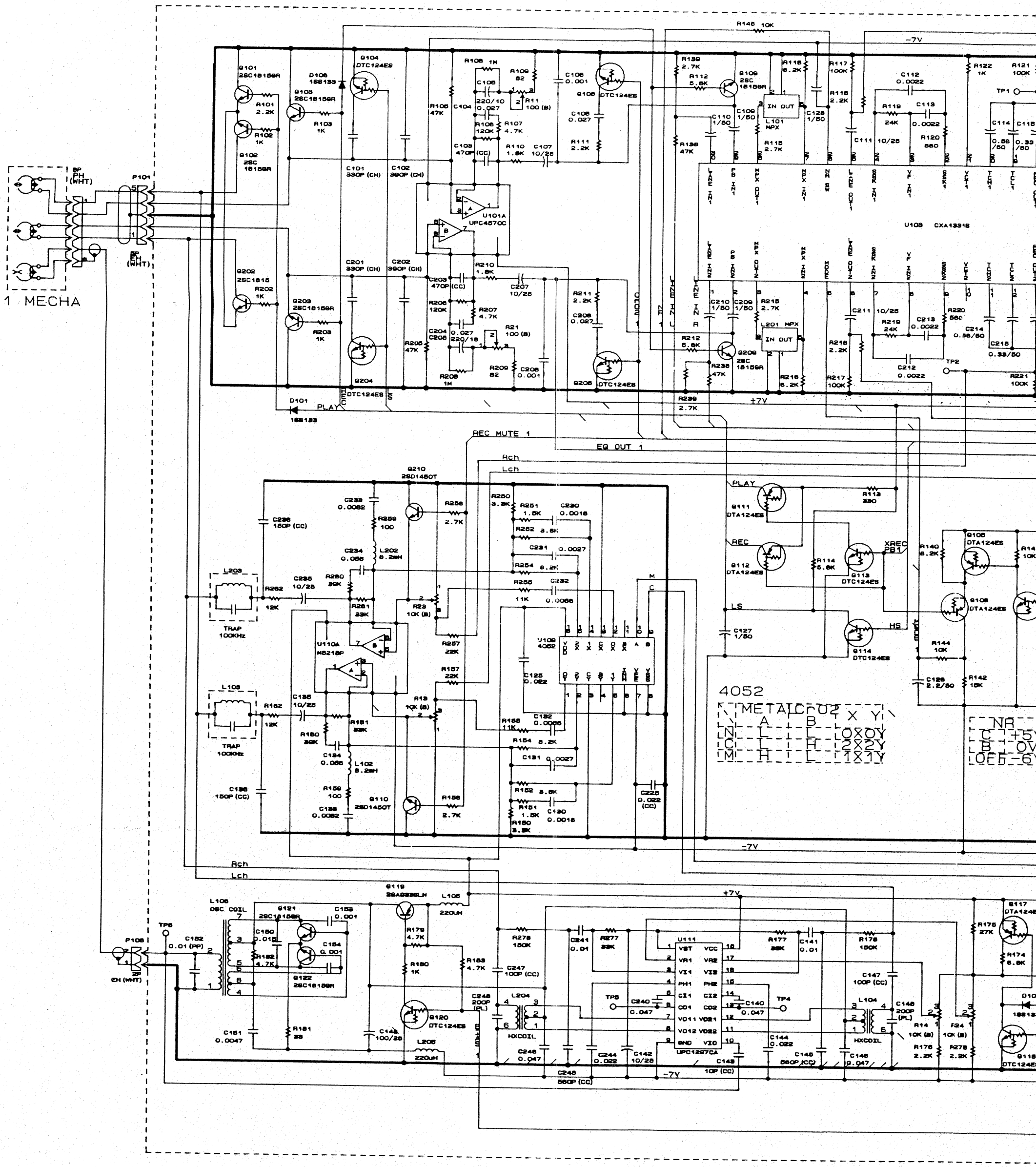
MIC PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	*9145107301	MIC PCB ASSY
	*9155107300	MIC PCB
J5,6	9143318010	MIC JACK
P302	9143171000	CONNECTOR PLUG, 3P
R2	9172019400	VR, 100KWX1
R3	9172020200	VR, TAPE MIX 10KAX2
R4,5	9172020300	VR, MIC LEVER 20KA
U310-312	9167015000	IC, M5218P
U313	9167014000	IC, UPC4570C

FRONT PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	*9145107200	FRONT PCB ASSY
	*9155107200	FRONT PCB
	5292210300	MODULE, REMOTE SBX1610-52
	*9260164600	FL HOLDER
D1-28	9165022150	DIODE, 1SS133T
FL1	5347020500	FL TUBE
Q1-4	9163011220	TR, DTA124ES
R1	9111247000	R, ARRAY (RYLS 9J104)
R2	9111248000	R, ARRAY (RYLS 10J104)
S1,2	9135031700	SW, SLIDE SSSF023NA2-TK
S3,4	9134010400	SW, SLIDE SSSF013NA1-TK
S5-12	9136001400	SW, TACT SKHHAK2510-TK
S13-16	5302106700	SW, TACT B3F-1150
S17-27	9136001400	SW, TACT SKHHAK2510-TK
S28	5302106700	SW, TACT B3F-1150
U401,402	9167021300	IC, LB1240
U403	9167021400	IC, BA6800AS

TEAC SCHEMATIC DIAGRAM W-6000R REC/PLAY SECTION (1/2)



INSTRUCTIONS FOR SERVICE PERSONNEL

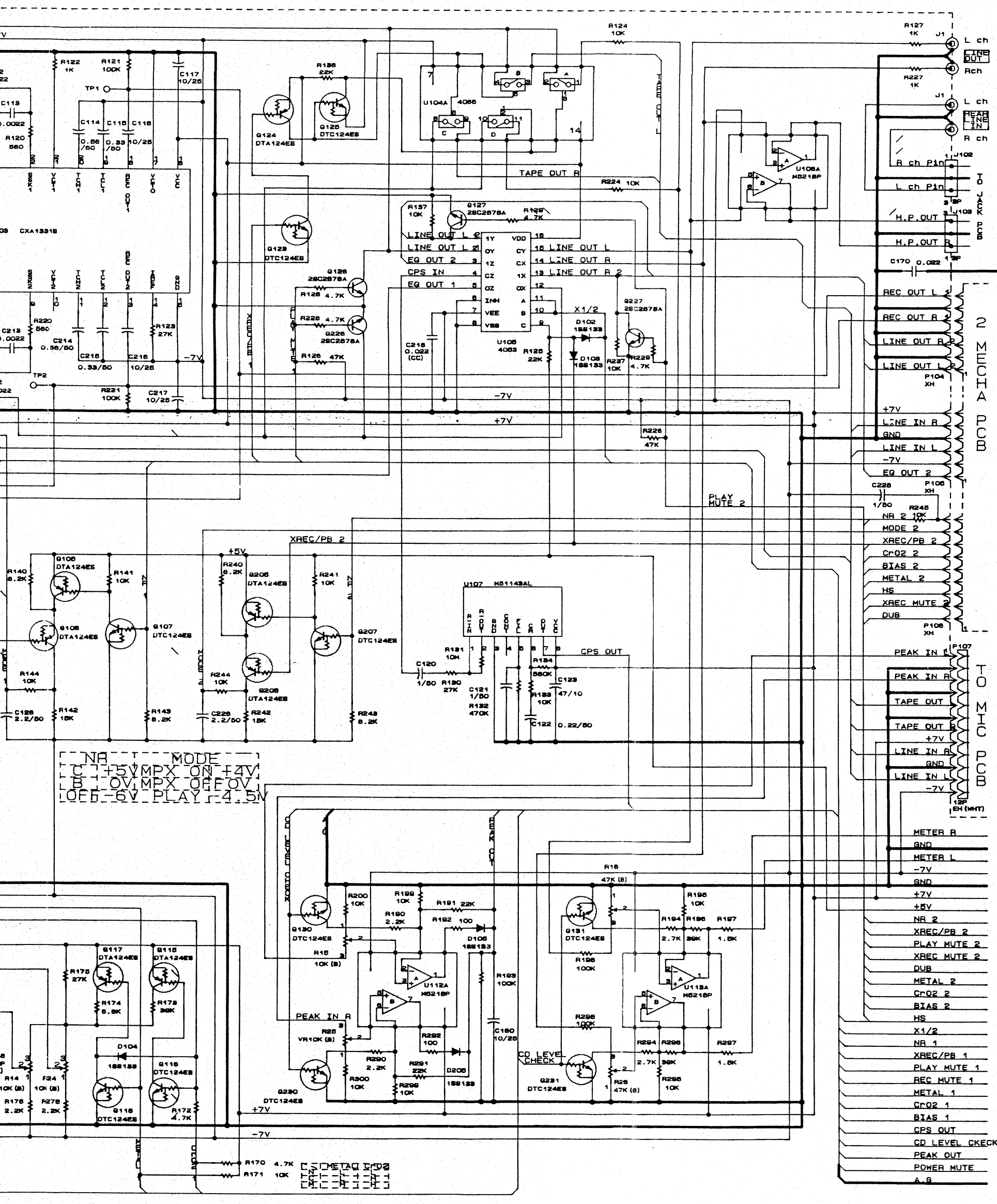
BEFORE RETURNING APPLIANCE TO THE CUSTOMER, MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT.

NOTES:

1. Resistor values are in ohms (k=kilo-ohms, M=megohms).
2. Capacitor values are in microfarads (p=picofarads).
3. ⚠ Parts marked with this sign are safety critical components. They must always be replaced with identical components-refer to the appropriate parts list and ensure exact replacement.

注意

1. 抵抗の単位はΩ（k＝kΩ, M＝MΩ）です。
2. コンデンサの単位はμF（p＝pF）です。
3. ⚠マークのある部品は安全規格重要部品です。
   交換するときは必ずティアック指定の部品を使用してください。

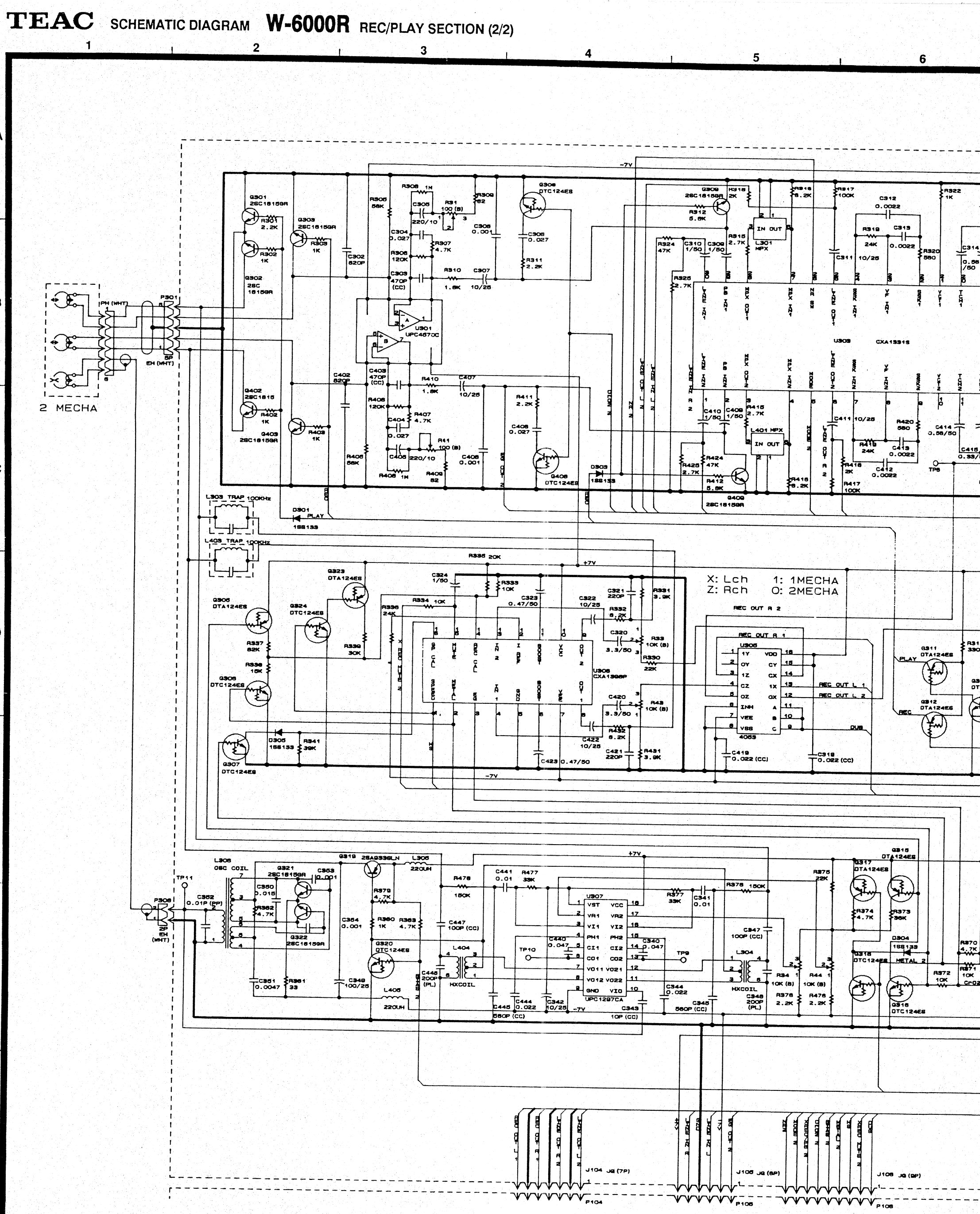


PCB

W-6000R

Stereo Double Reverse Cassette Deck

1 st Issue; May 1992



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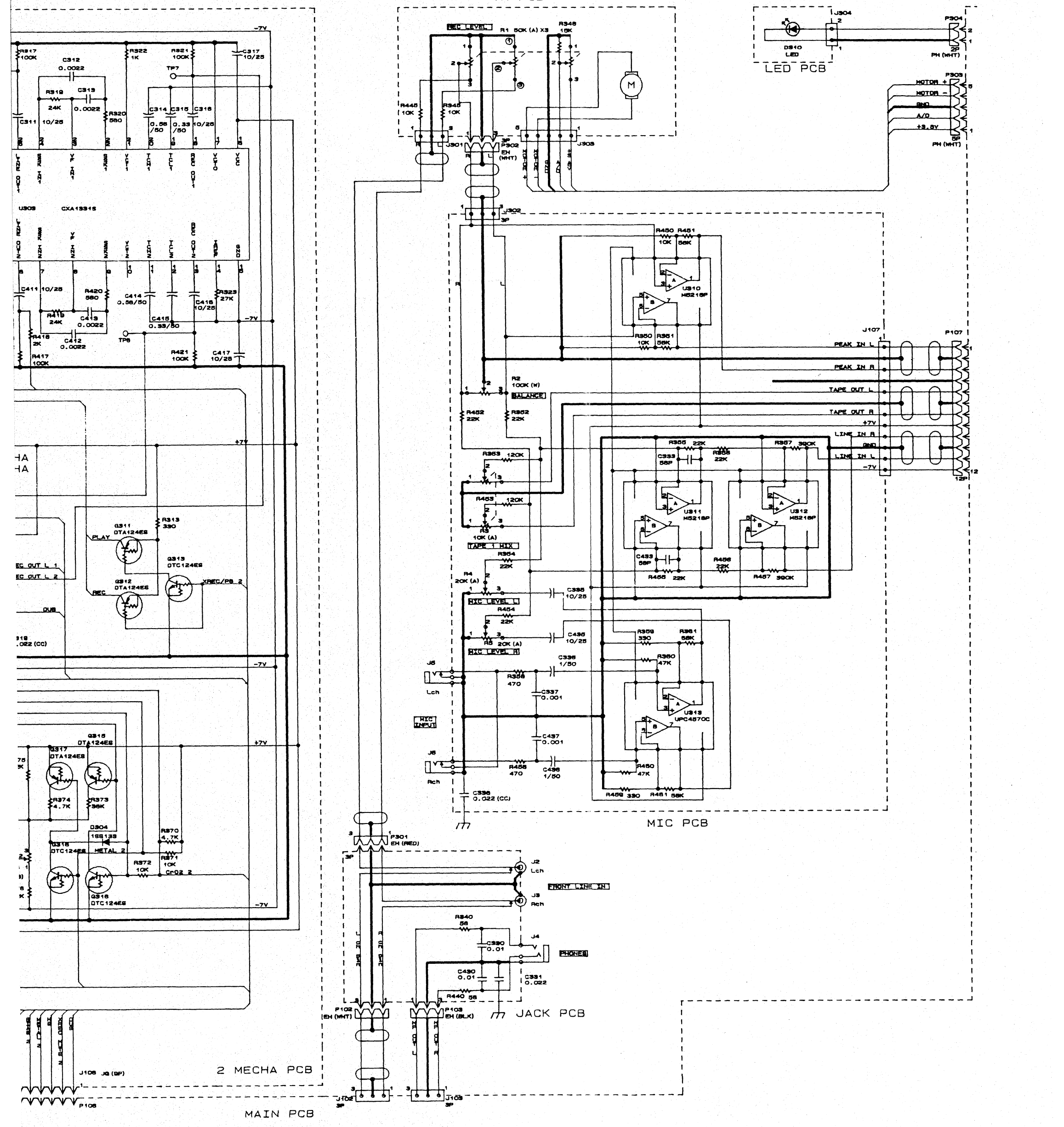
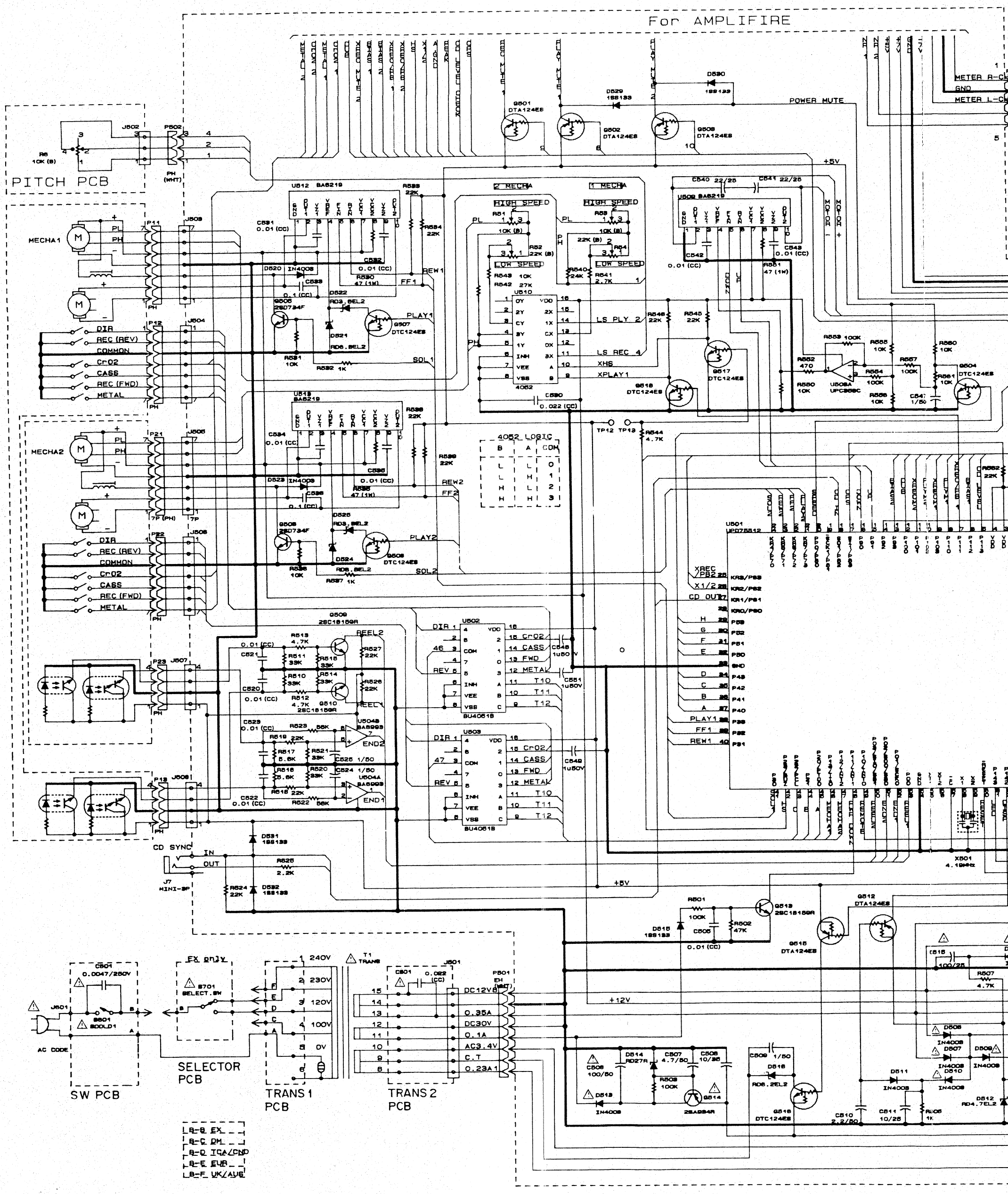


W-6000F

Stereo Double Reverse Cassette Dec

1 st Issue; May 19



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2. コンデンサの単位はμF（p＝pF）です。
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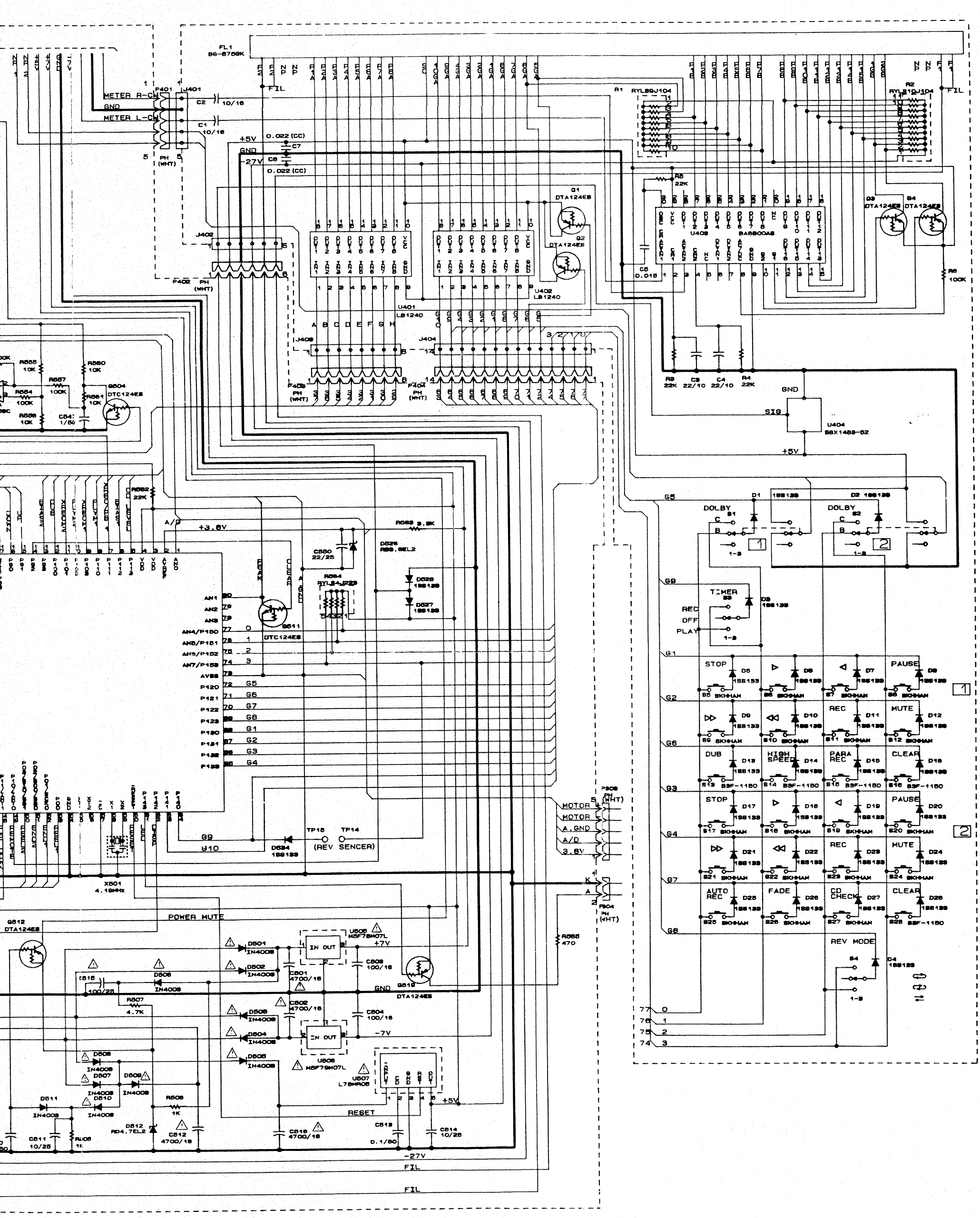
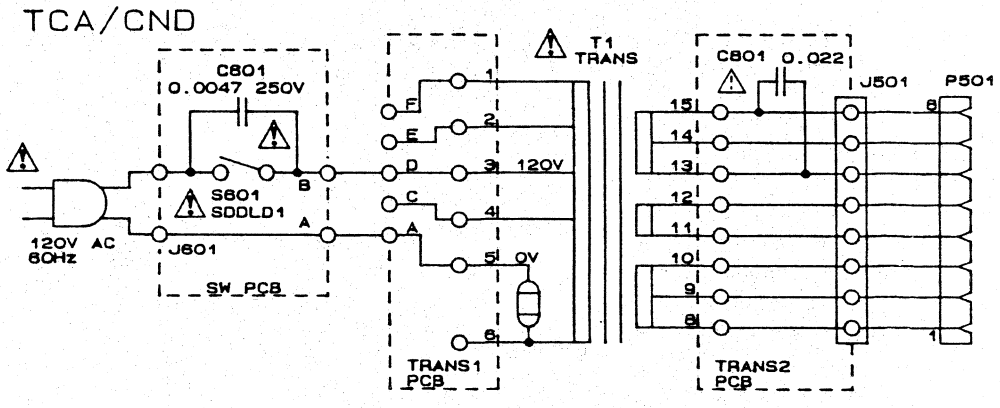


W-6000

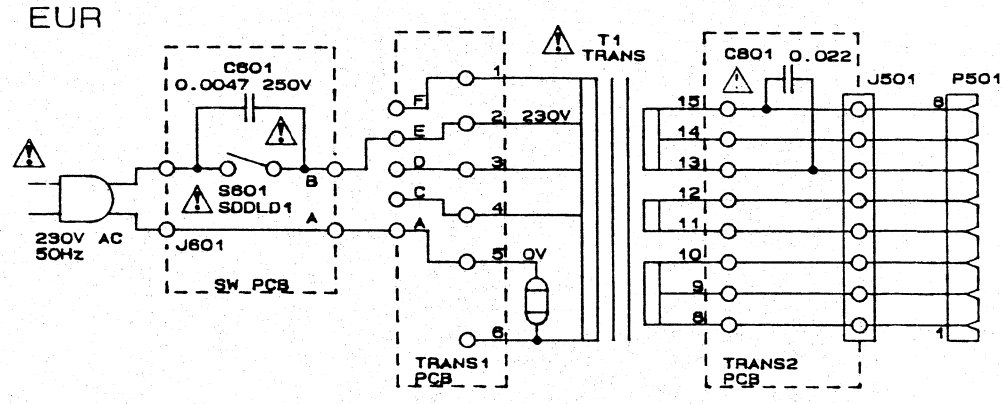
Stereo Double Reverse Cassette De

1 st Issue; May

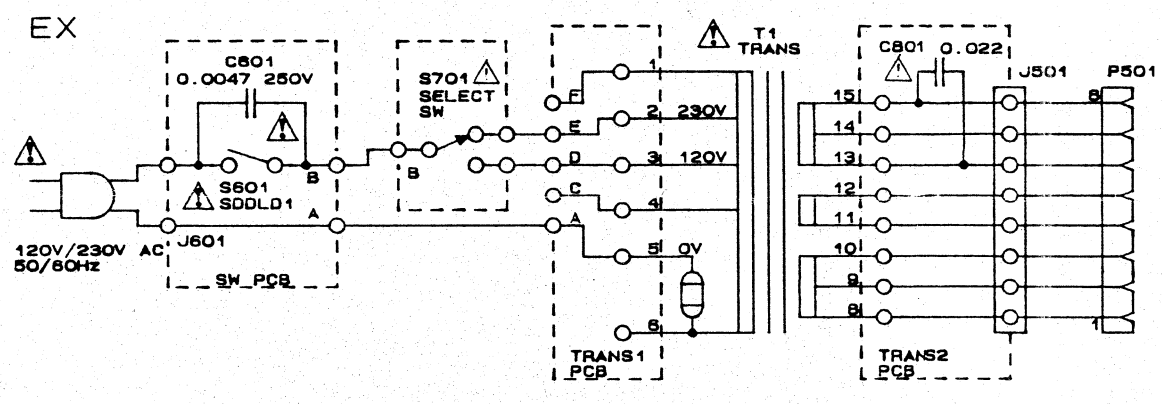
TCA/CND



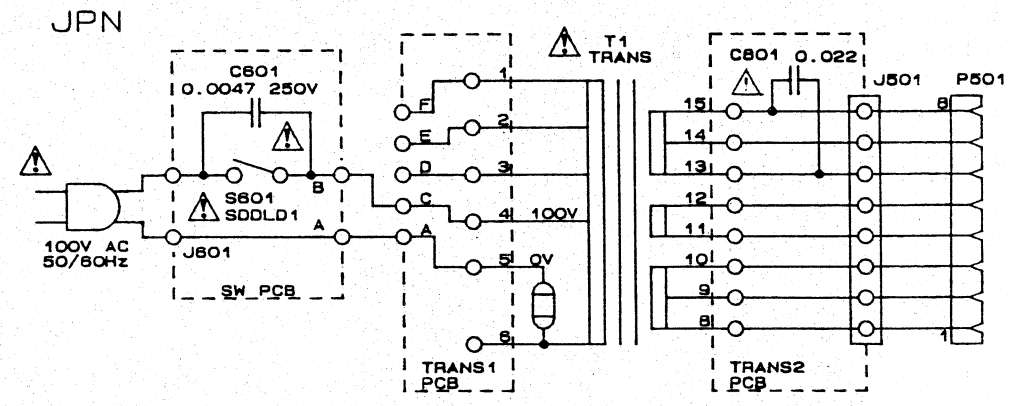
EUR



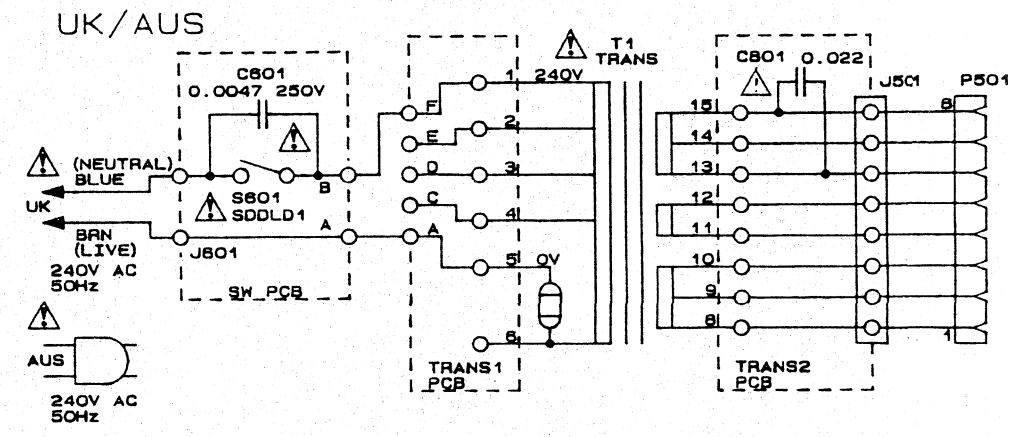
EX



JPN



UK/AUS



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3. ⚠マークのある部品は安全規格重要部品です。
   交換するときは必ずティアック指定の部品を使用してください。

W-6000R

TEAC®

ティアック株式会社

	営業部	☎ (0422) 52-5071	〒160 東京都武蔵野市中町1-19-18	武蔵野センタービル
技術的なお問合わせ	AV技術相談室	☎ (0425) 60-7761	〒208 東京都武蔵村山市伊奈平2-11-1	
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